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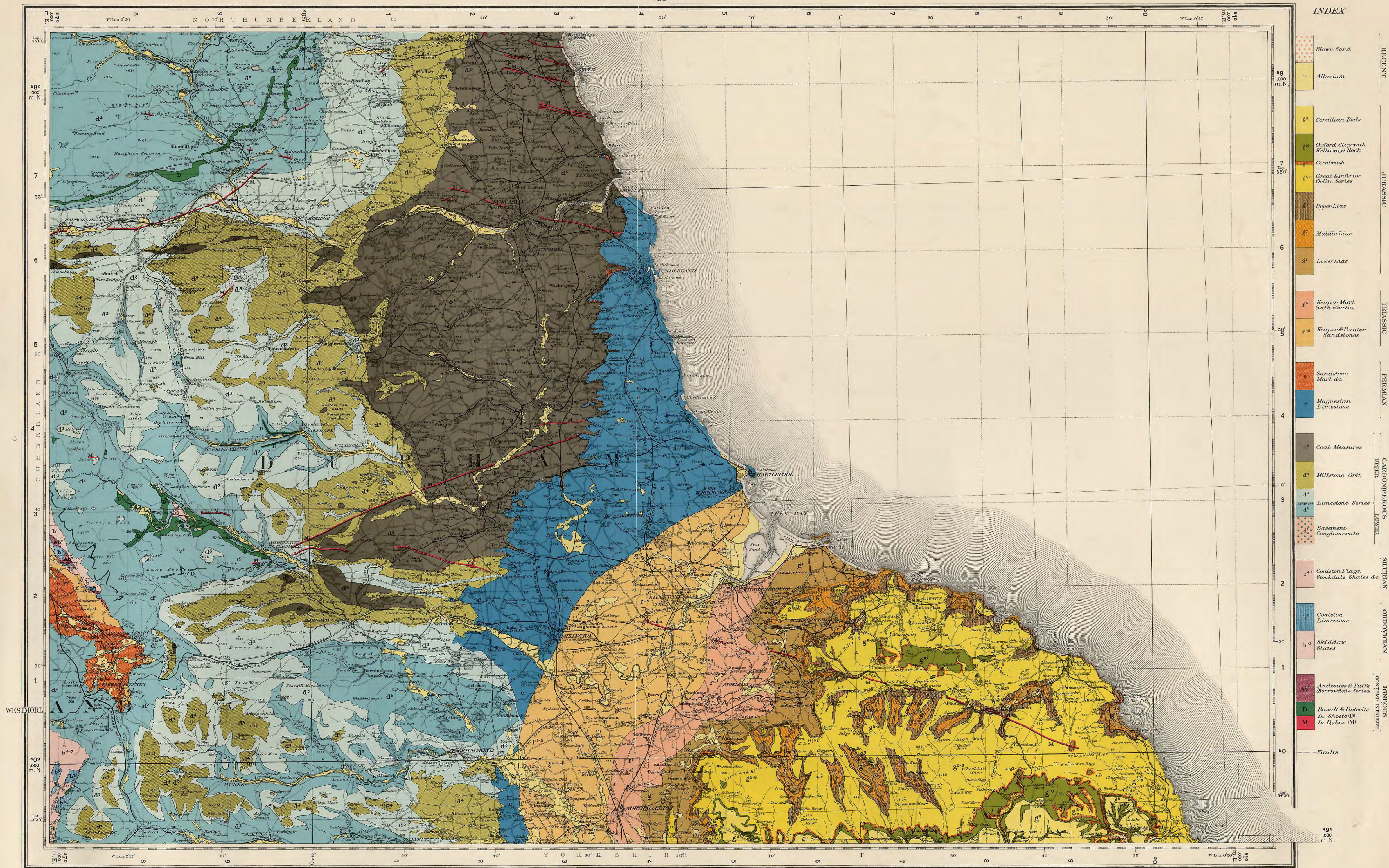
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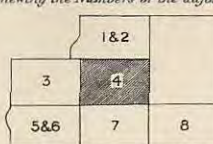
INDEX

- Blown Sand
- Alluvium
- Corallian Beds
- Oxford Clay with Kellaways Rock
- Cornbrash
- Great & Inferior Oolite Series
- Upper Lias
- Middle Lias
- Lower Lias
- Keuper Marl (with Rhaetic)
- Keuper & Bunter Sandstones
- Sandstone Marl &c.
- Magnesian Limestone
- Coal Measures
- Millstone Grit
- Limestone Series
- Basement Conglomerate
- Conistone Flags, Stockdale Shales &c.
- Conistone Limestone
- Skiddaw Slates
- Andesites & Tuffs (Borrowdale Series)
- Basalt & Dolerite In Sheets (D)
- In Dykes (M)
- Faults

Roads, First Class
Second Class
Third Class
Railways
County Boundaries
Church

Reduced from the One-Inch (New Series) Map of the Geological Survey 1906.
Published 1907. J. H. Toall, M.A.D. Sc. F.R.S., Director.
3rd Edition 1952. W. J. Pugh, O.B.E. D.Sc. F.R.S., Director.
1,000/52.

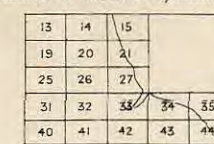
Diagram showing the Numbers of the adjoining Sheets



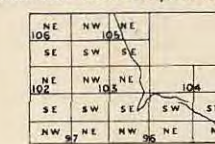
Scale of Four Miles to One Inch 1:250,000



Index to the One Inch Maps in this Sheet



Index to the One Inch Maps in this Sheet



Engraved and Published at the Ordnance Survey Office, Southampton, 1900.
Reduced from the One Inch Map.
Revised 1894-97.

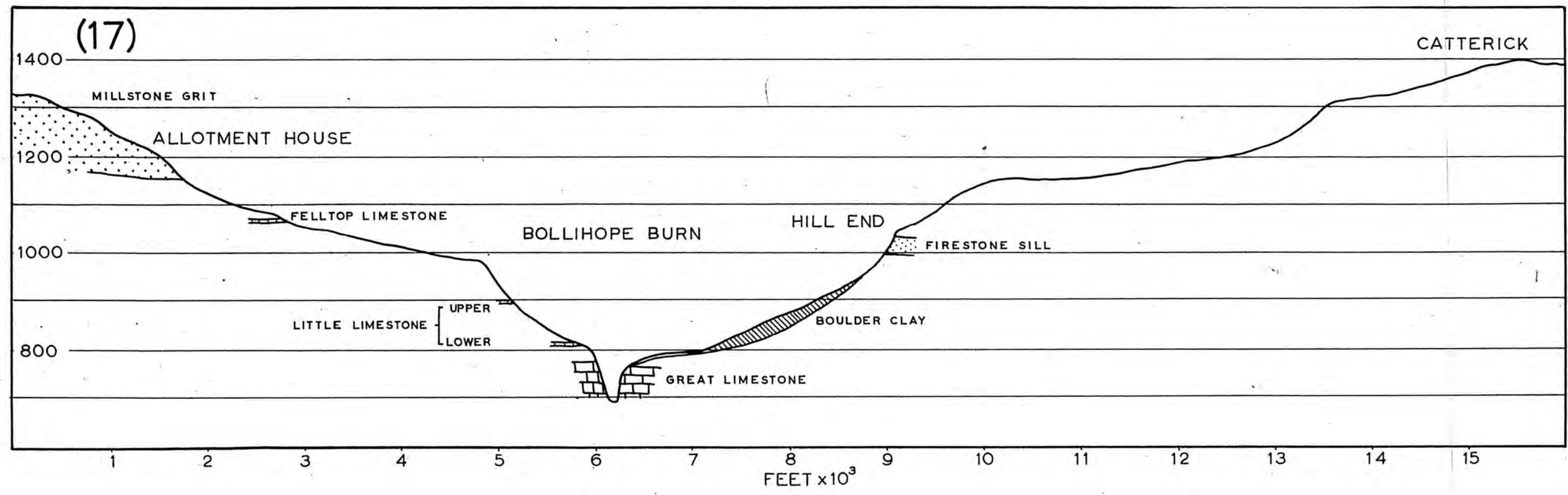
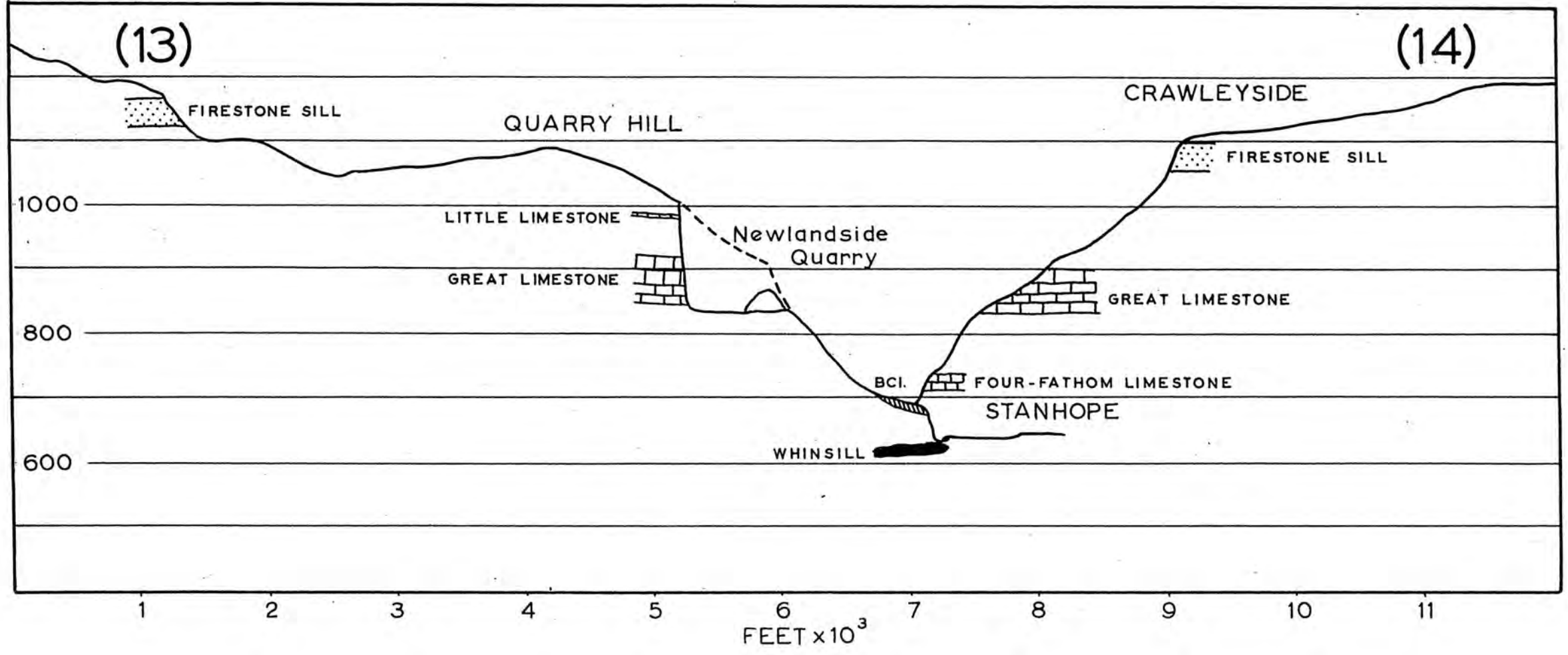
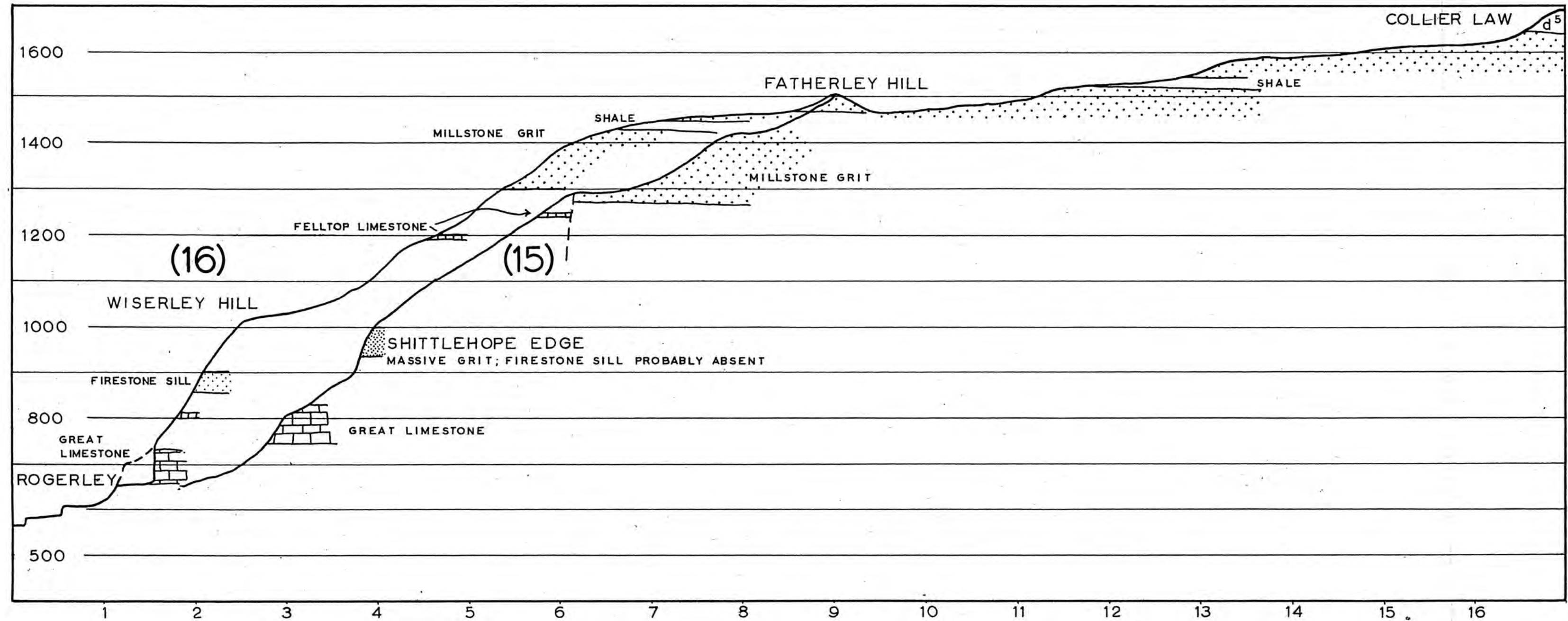
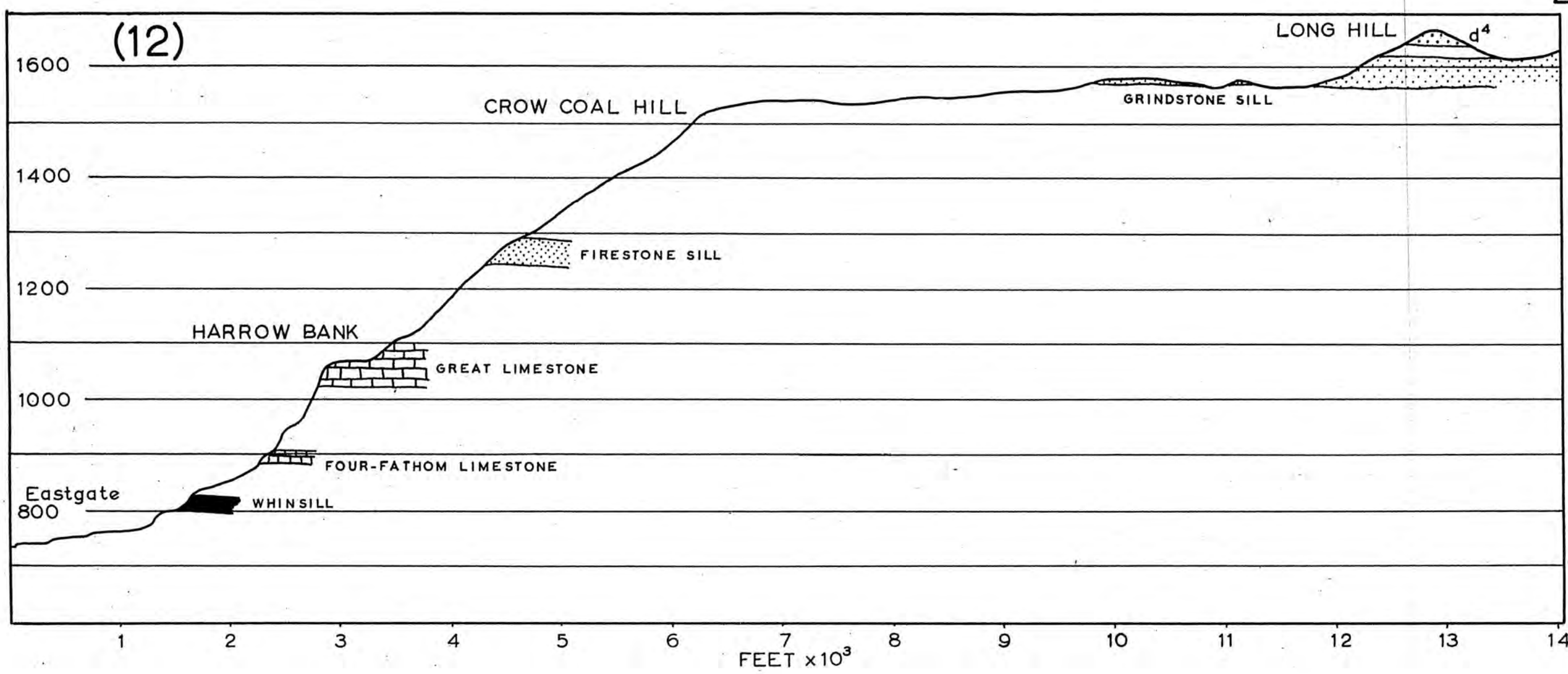
Railways inserted to October 1905.

N.B. The representation on this map of a Road is
no evidence of the existence of a right of way.
Printed and Published by the Director General
of the Ordnance Survey, Southampton, 1952.

LOWER WEARDALE INTERFLUVE AND SPUR PROFILES VERTICAL EXAGGERATION x5

- (12) BASED ON O.S. DATA; SOME TRIGNOMETRIC CONTROL
- (13) BASED ON O.S. DATA ONLY
- (14) " " " " "
- (15) SURVEYED BY PLANE-TABLE
- (16) " " " "
- (17) " " " "

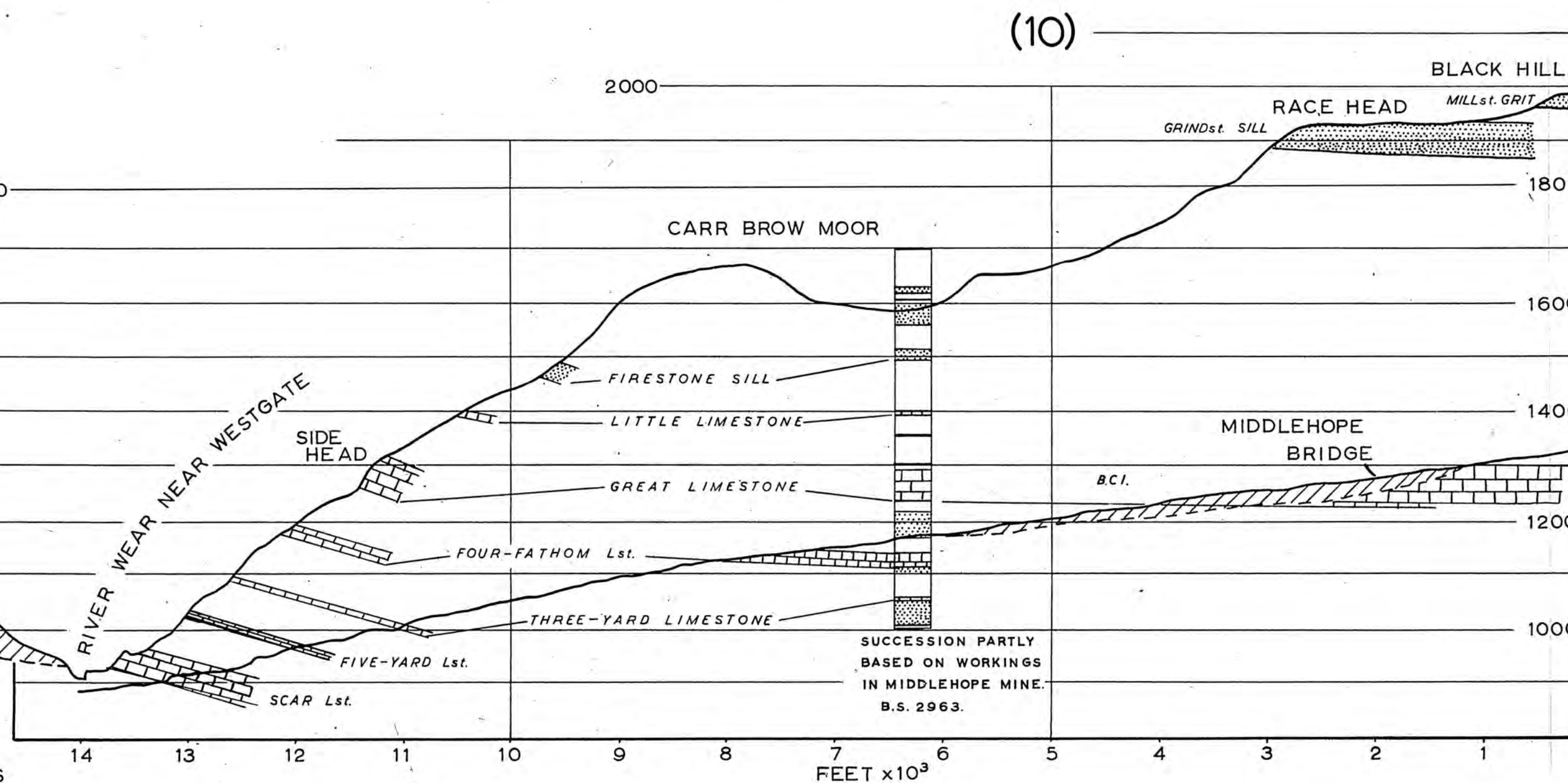
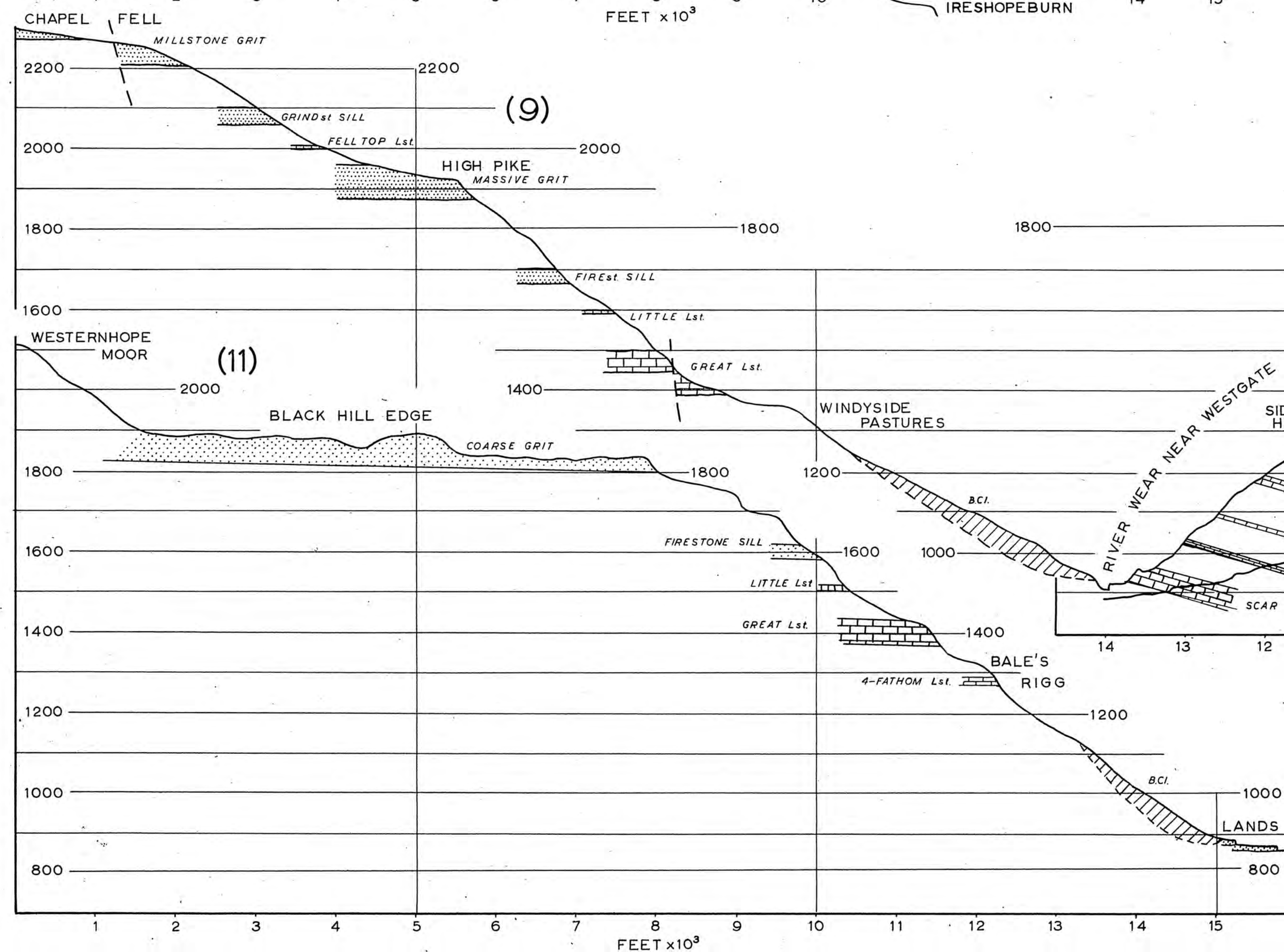
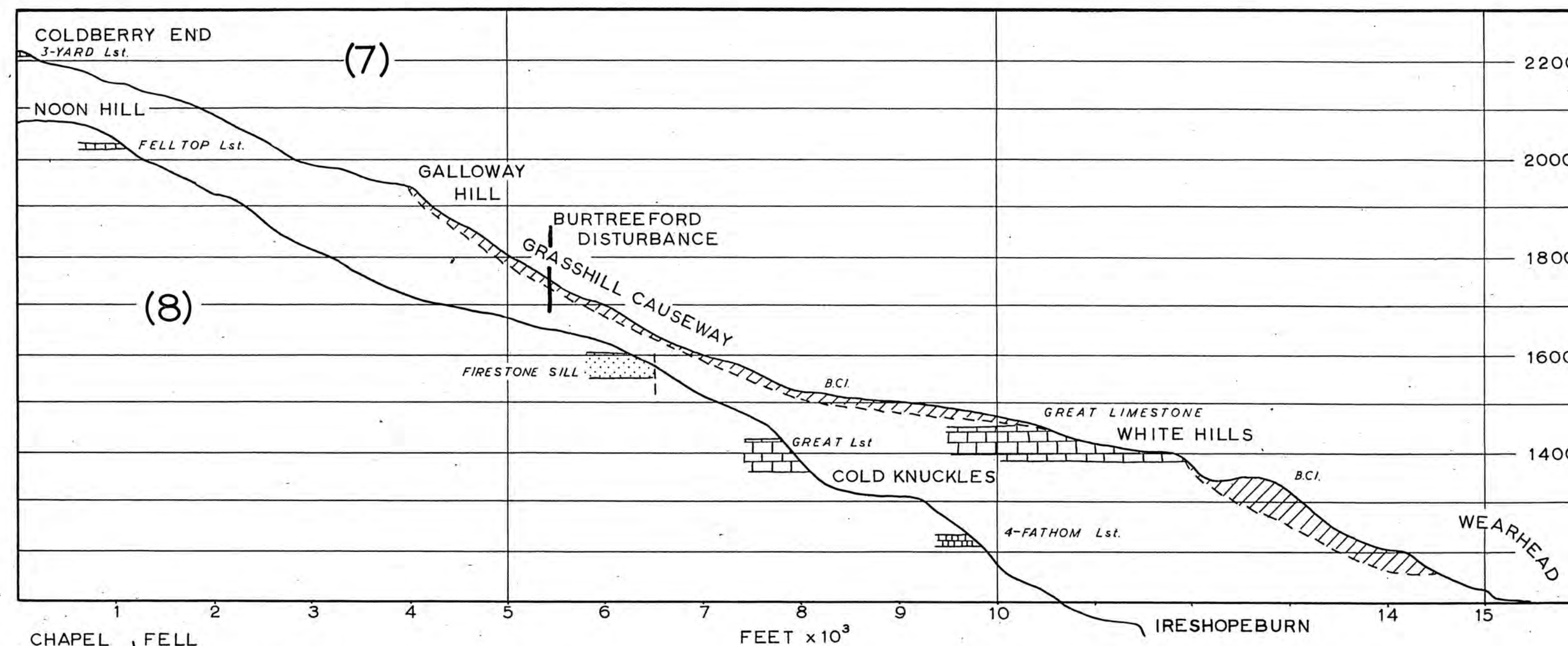
GEOLOGICAL HORIZONS FROM PRIMARY SURVEY
DURHAM SIX-INCH SHEETS: XXIII, XXIV, XXXII

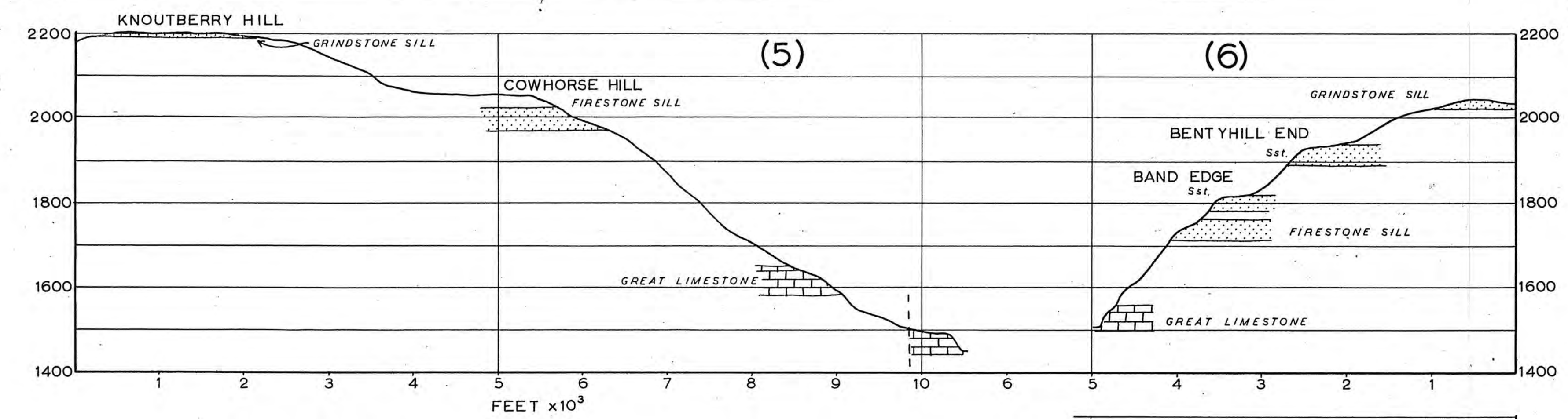


UPPER WEARDALE INTERFLUVE AND SPUR PROFILES VERTICAL EXAGGERATION x 5

- (7) SURVEYED BY ANEROID WITH O.S. CONTROL.
 (8) BASED ON O.S. DATA ONLY.
 (9) SURVEYED BY ANEROID WITH O.S. CONTROL
 (10) " " " " TRIGNOMETRIC CONTROL.
 (LONGITUDINAL PROFILE OF MIDDLEHOPE BURN MEASURED BY
 LEVELLING.)
 (11) BASED ON O.S. LEVELLING.

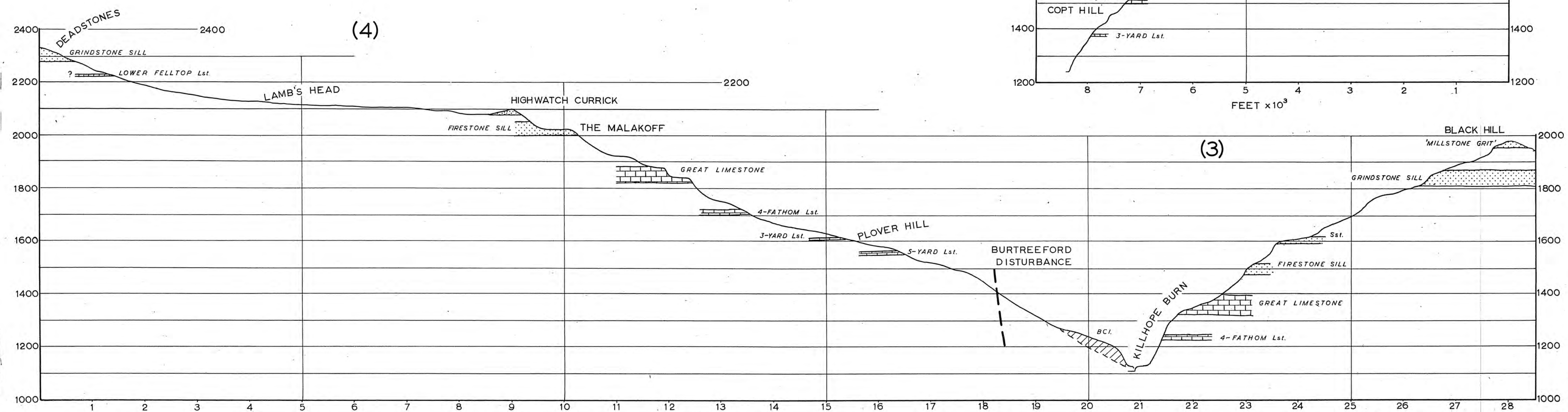
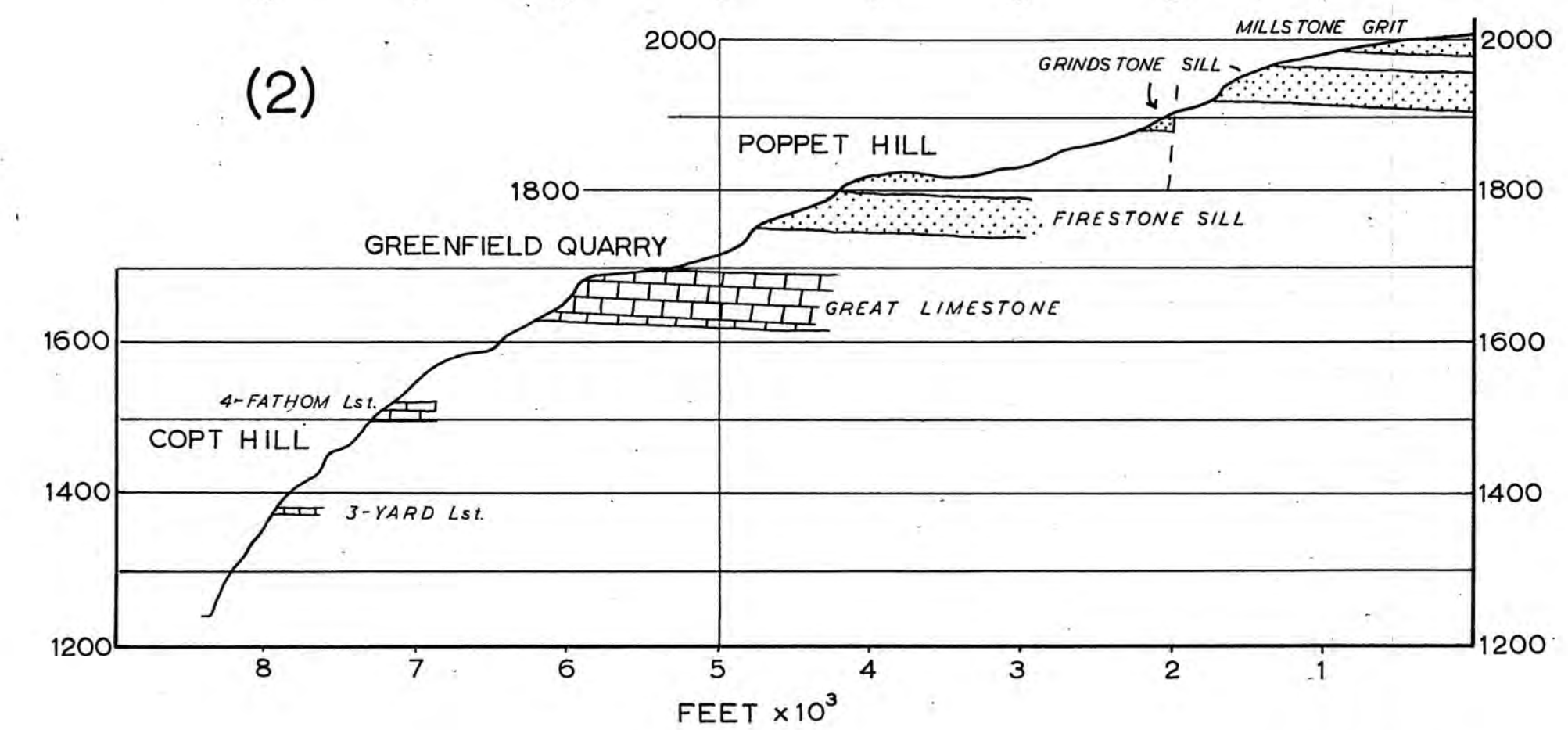
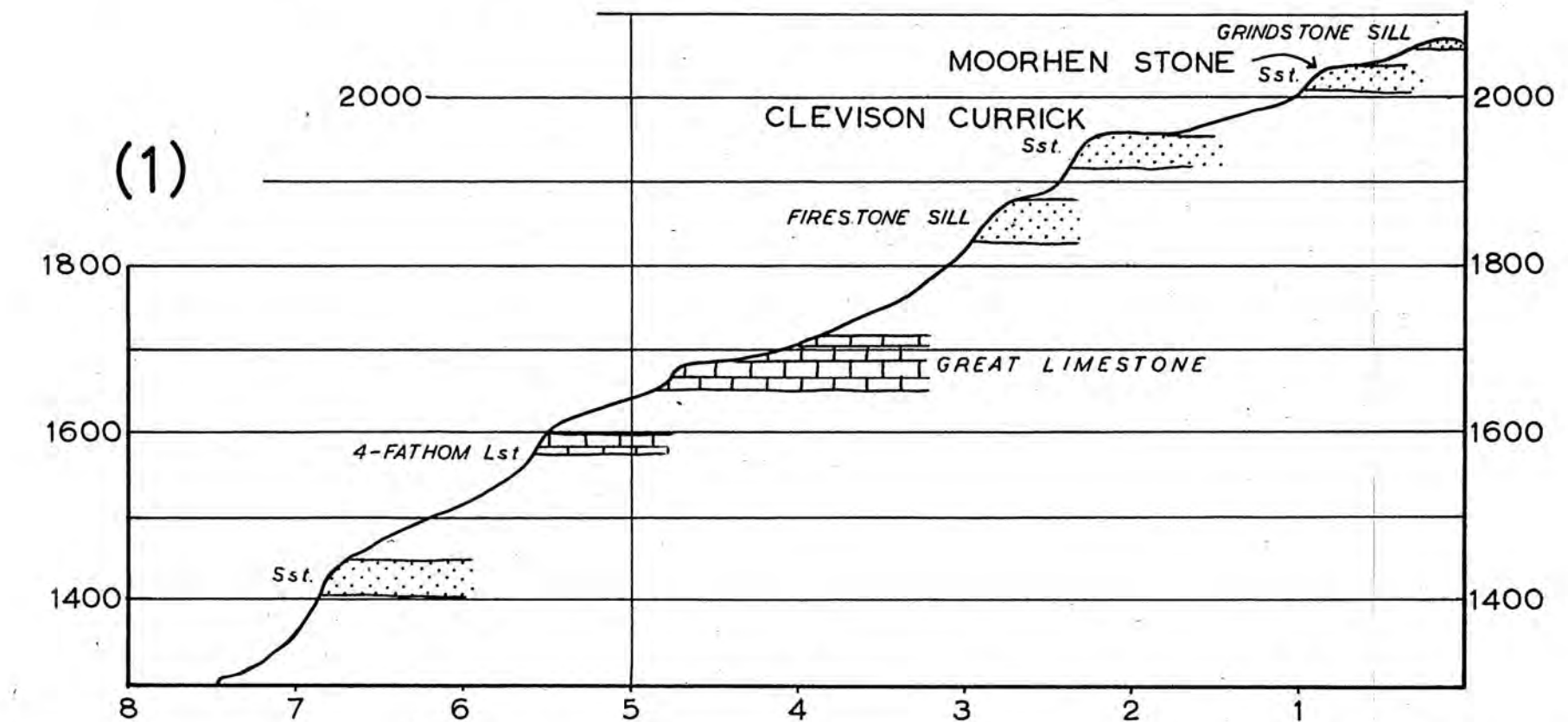
GEOLOGICAL HORIZONS FROM PRIMARY SURVEY. DURHAM 6-INCH,
SHEETS XXII, XXIII, XXX & XXXI.



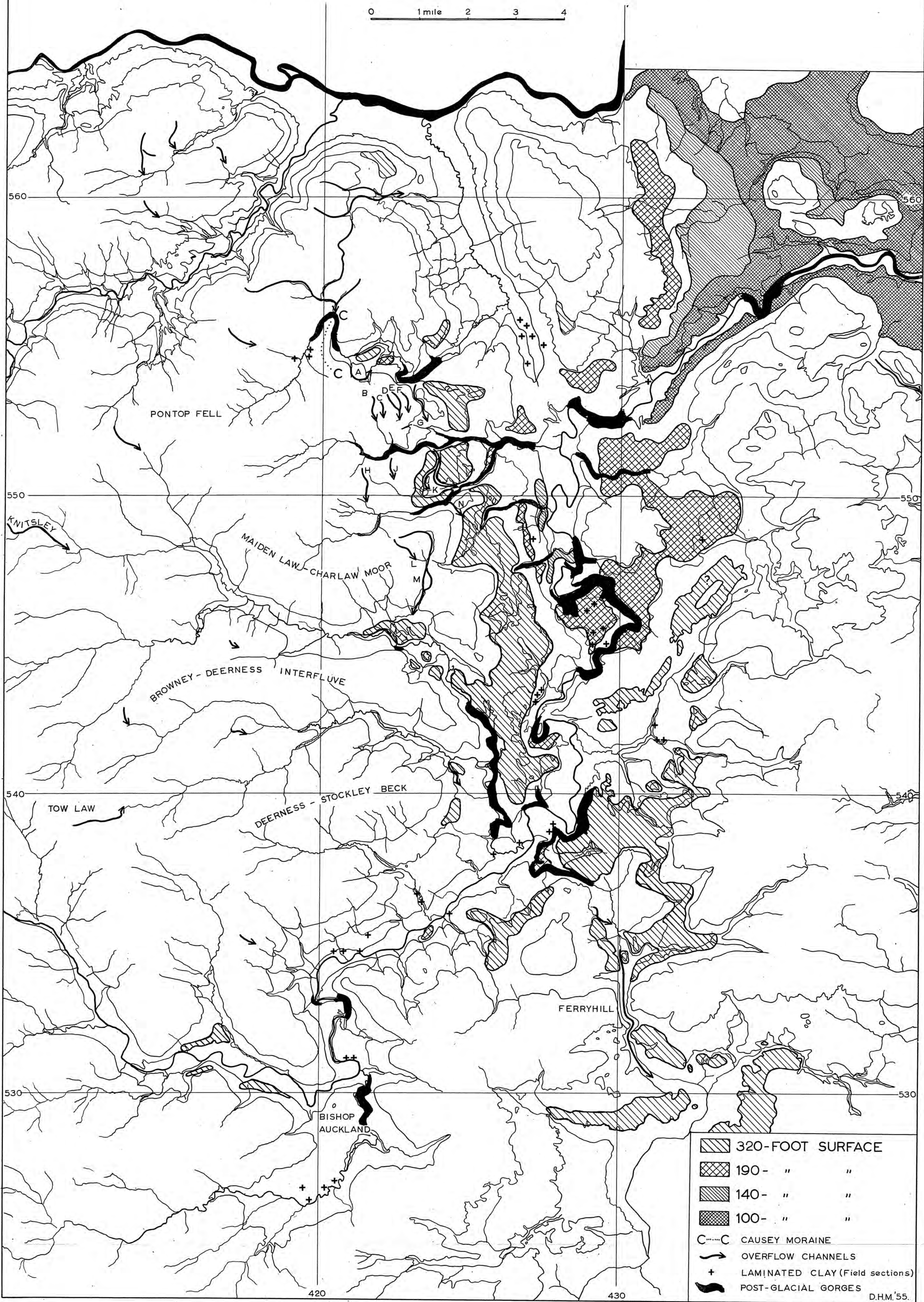


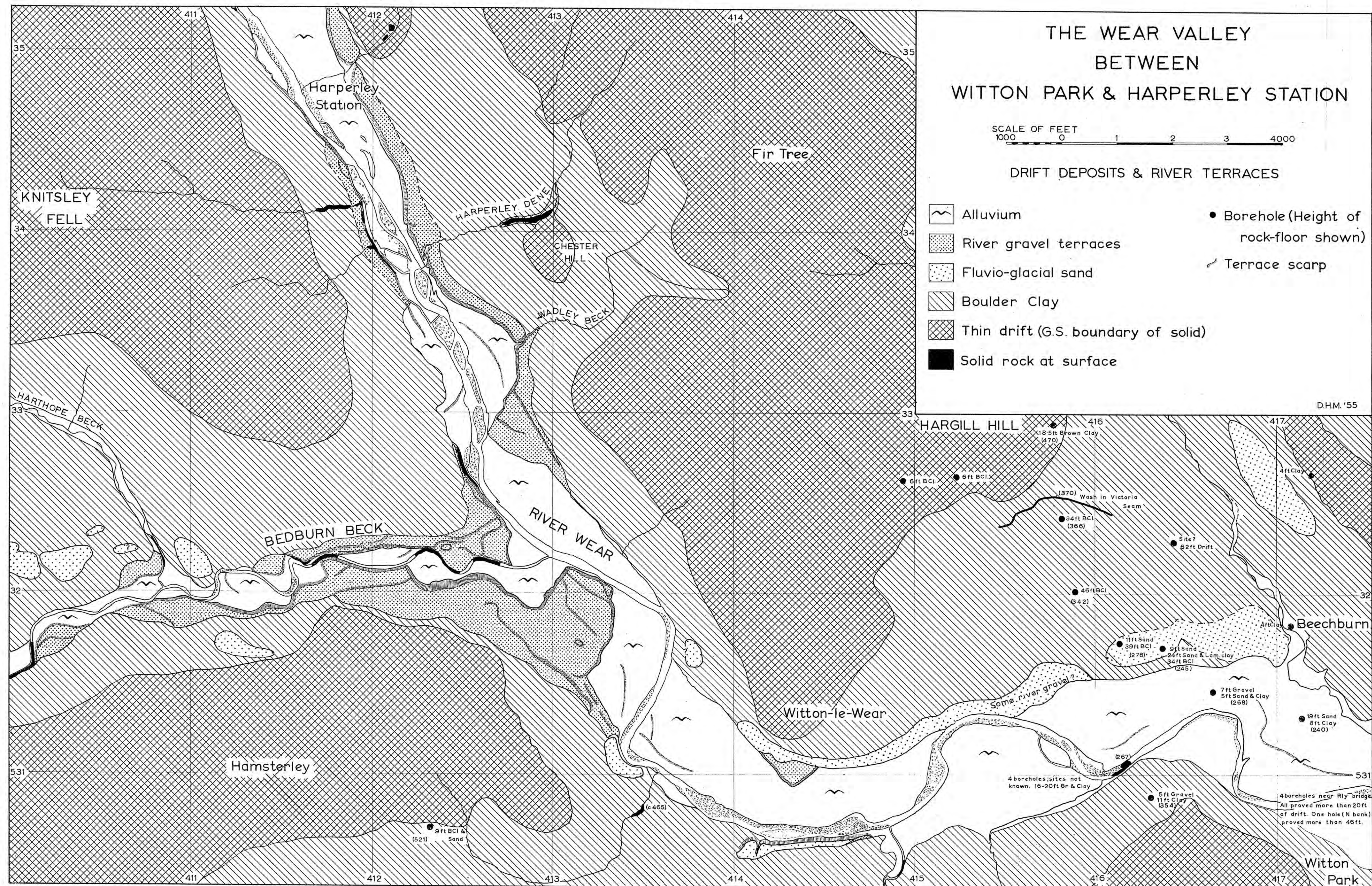
THE HEADWATERS OF THE RIVER WEAR INTERFLUVE AND SPUR PROFILES VERTICAL EXAGGERATION x 5

- (1) SURVEYED BY ANEROID WITH O.S. CONTROL ONLY
 - (2) " " " WITH TRIGNOMETRIC CONTROL
 - (3) " " " " " "
 - (4) " " " " O.S. CONTROL ONLY
 - (5) BASED ON O.S. DATA ONLY
 - (6) PART SURVEYED BY ANEROID
- GEOLOGICAL HORIZONS FROM PRIMARY SURVEY: DURHAM 6-INCH SHEET XXII.



THE POST-GLACIAL SURFACES OF THE WEAR VALLEY

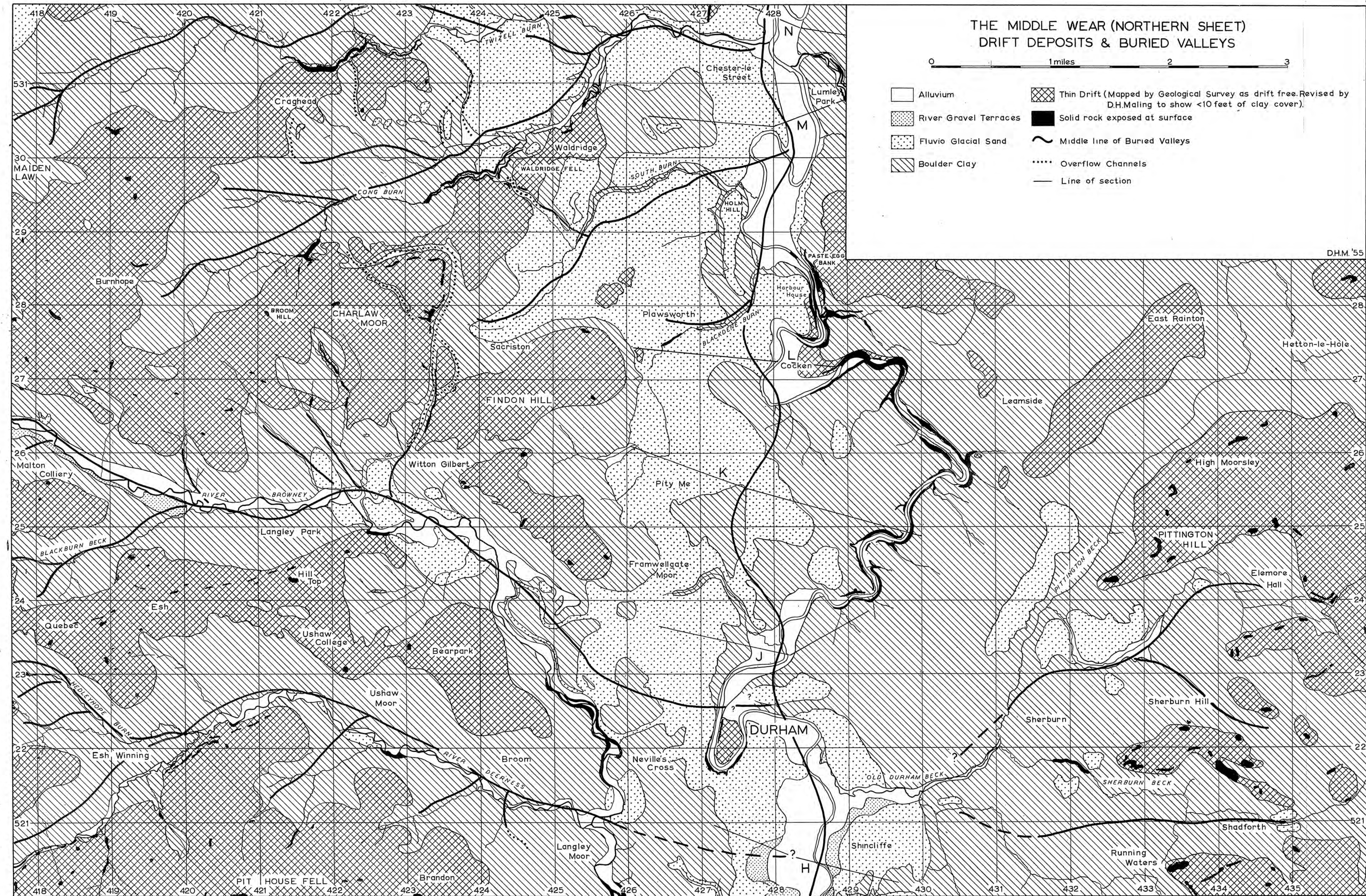




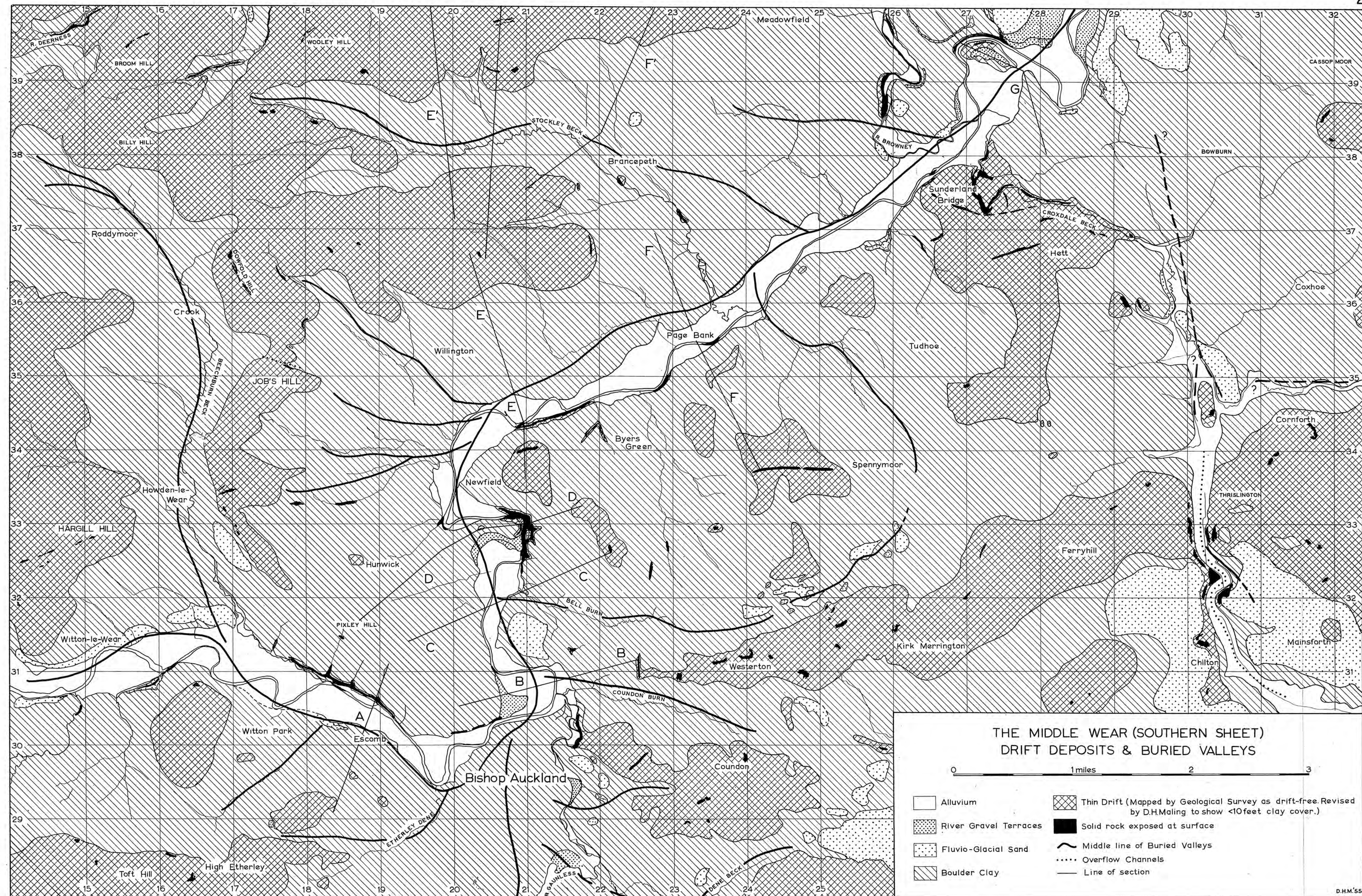
THE MIDDLE WEAR (NORTHERN SHEET) DRIFT DEPOSITS & BURIED VALLEYS

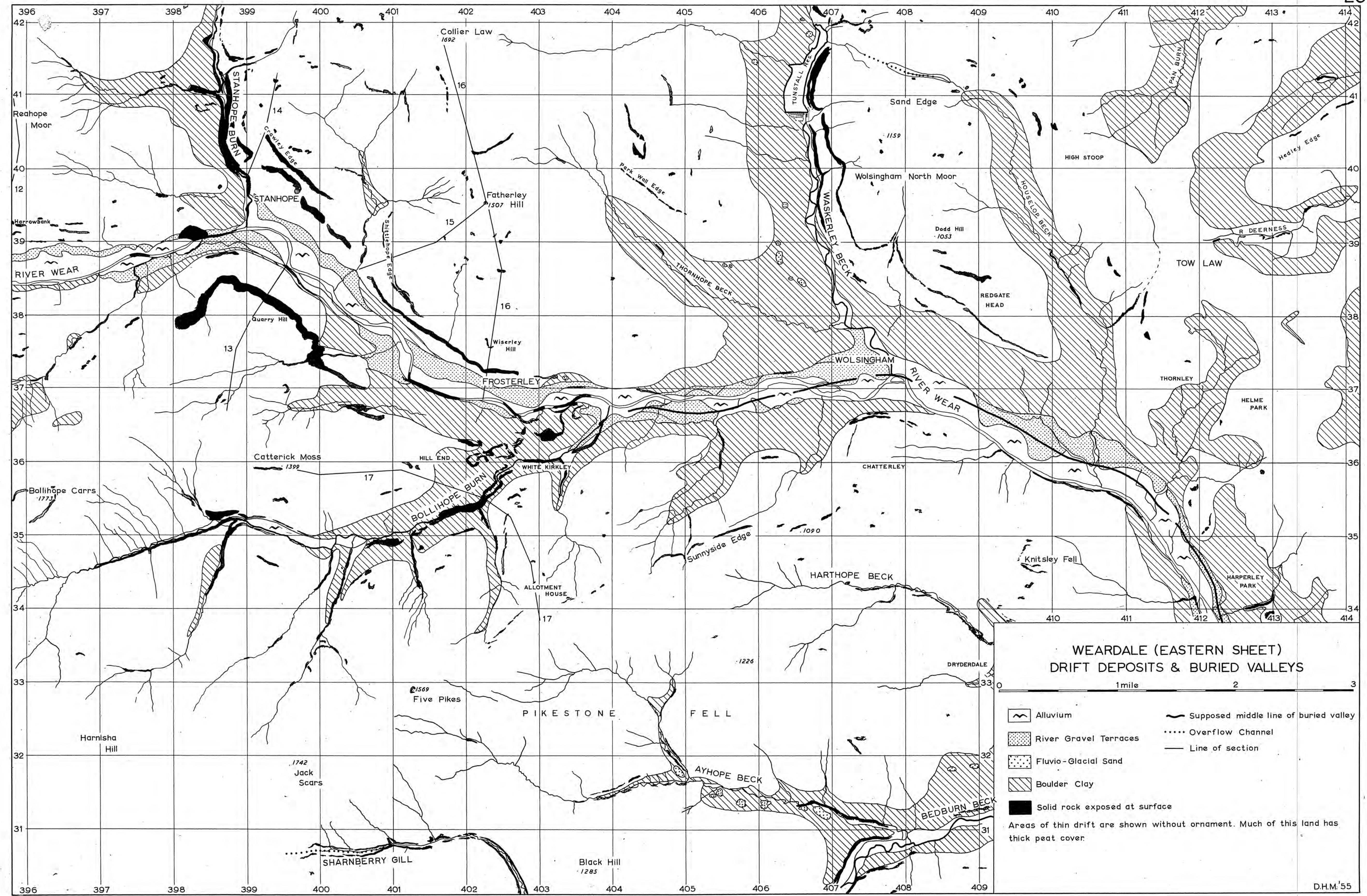


- | | |
|-----------------------|---|
| Alluvium | Thin Drift (Mapped by Geological Survey as drift free. Revised by D.H.Maling to show <10 feet of clay cover). |
| River Gravel Terraces | Solid rock exposed at surface |
| Fluvio Glacial Sand | Middle line of Buried Valleys |
| Boulder Clay | Overflow Channels |
| | Line of section |



D.H.M. '55



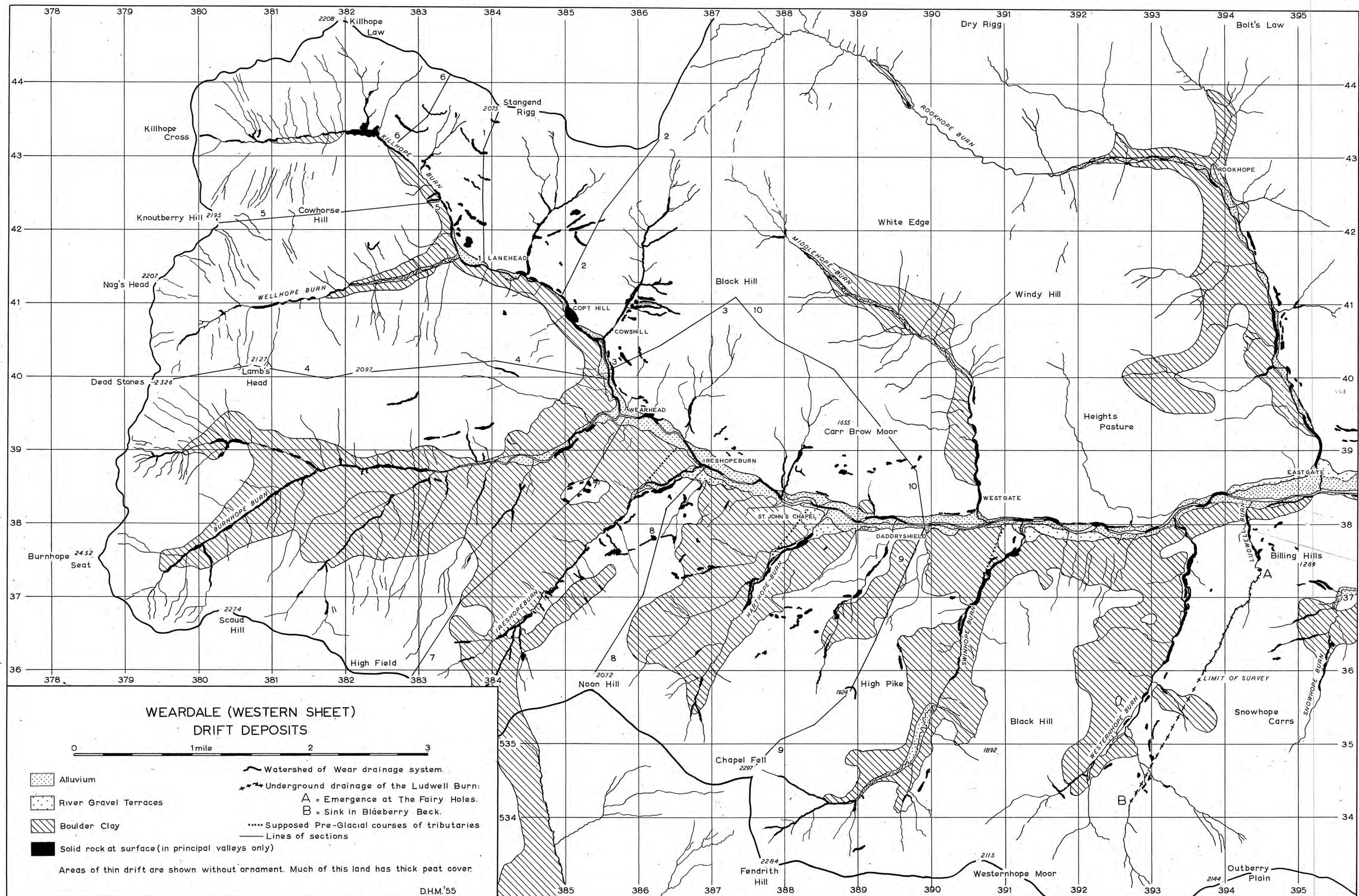


WEARDALE (EASTERN SHEET)
DRIFT DEPOSITS & BURIED VALLEYS

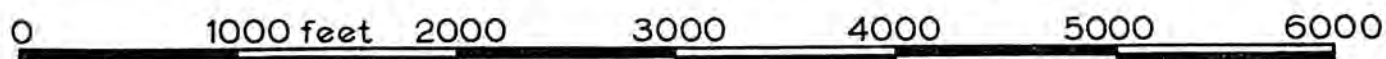
1mile 2 3

- Alluvium
- River Gravel Terraces
- Fluvio-Glacial Sand
- Boulder Clay
- Solid rock exposed at surface
- Supposed middle line of buried valley
- Overflow Channel
- Line of section

Areas of thin drift are shown without ornament. Much of this land has thick peat cover.

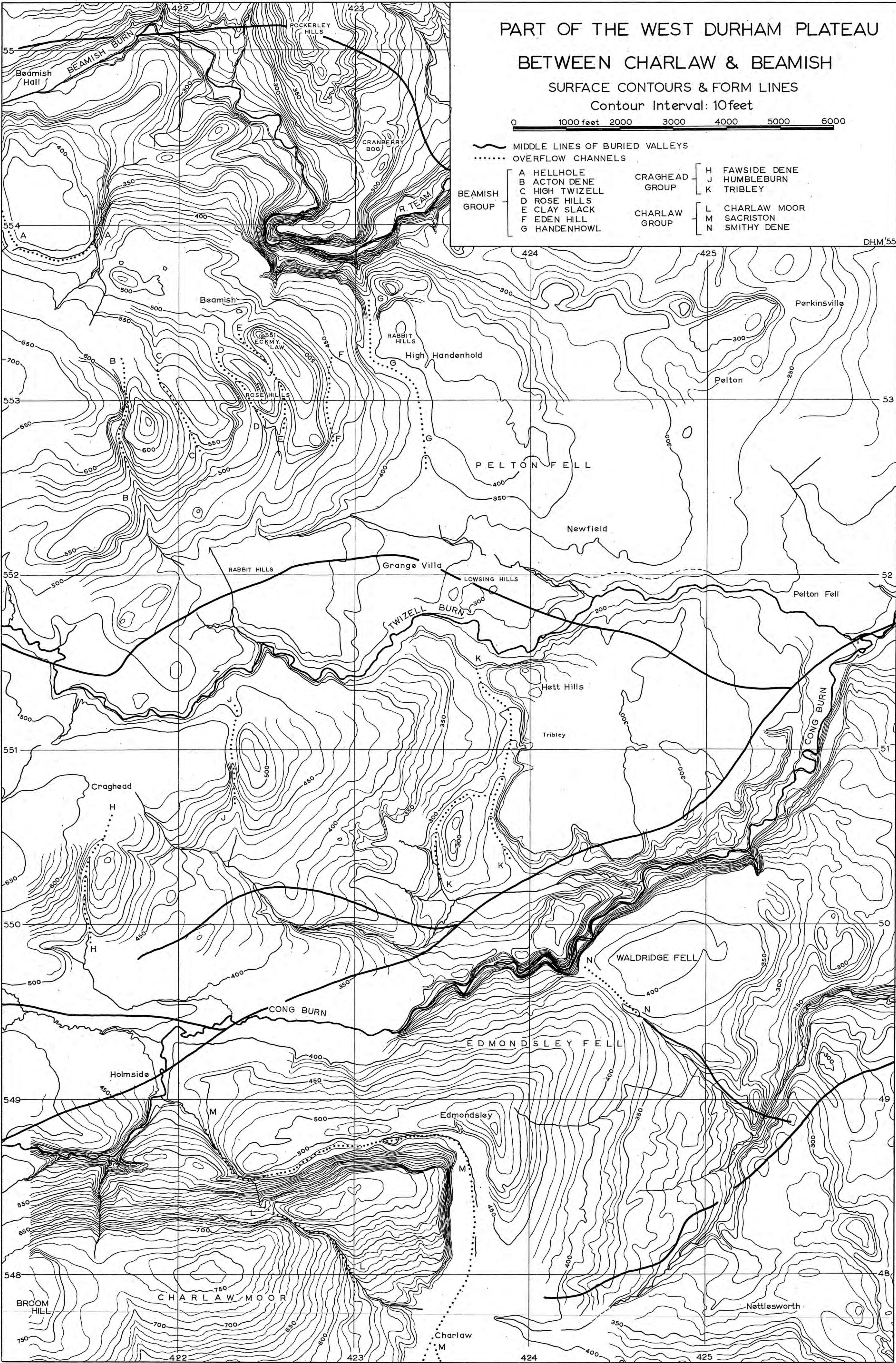


PART OF THE WEST DURHAM PLATEAU
BETWEEN CHARLAW & BEAMISH
SURFACE CONTOURS & FORM LINES
Contour Interval: 10 feet

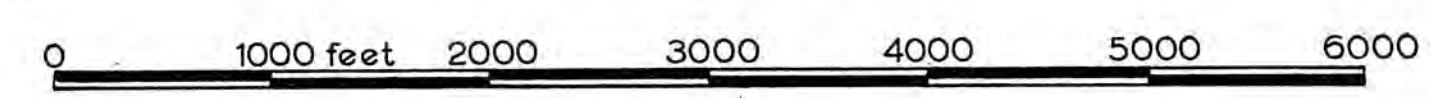


— MIDDLE LINES OF BURIED VALLEYS
..... OVERFLOW CHANNELS

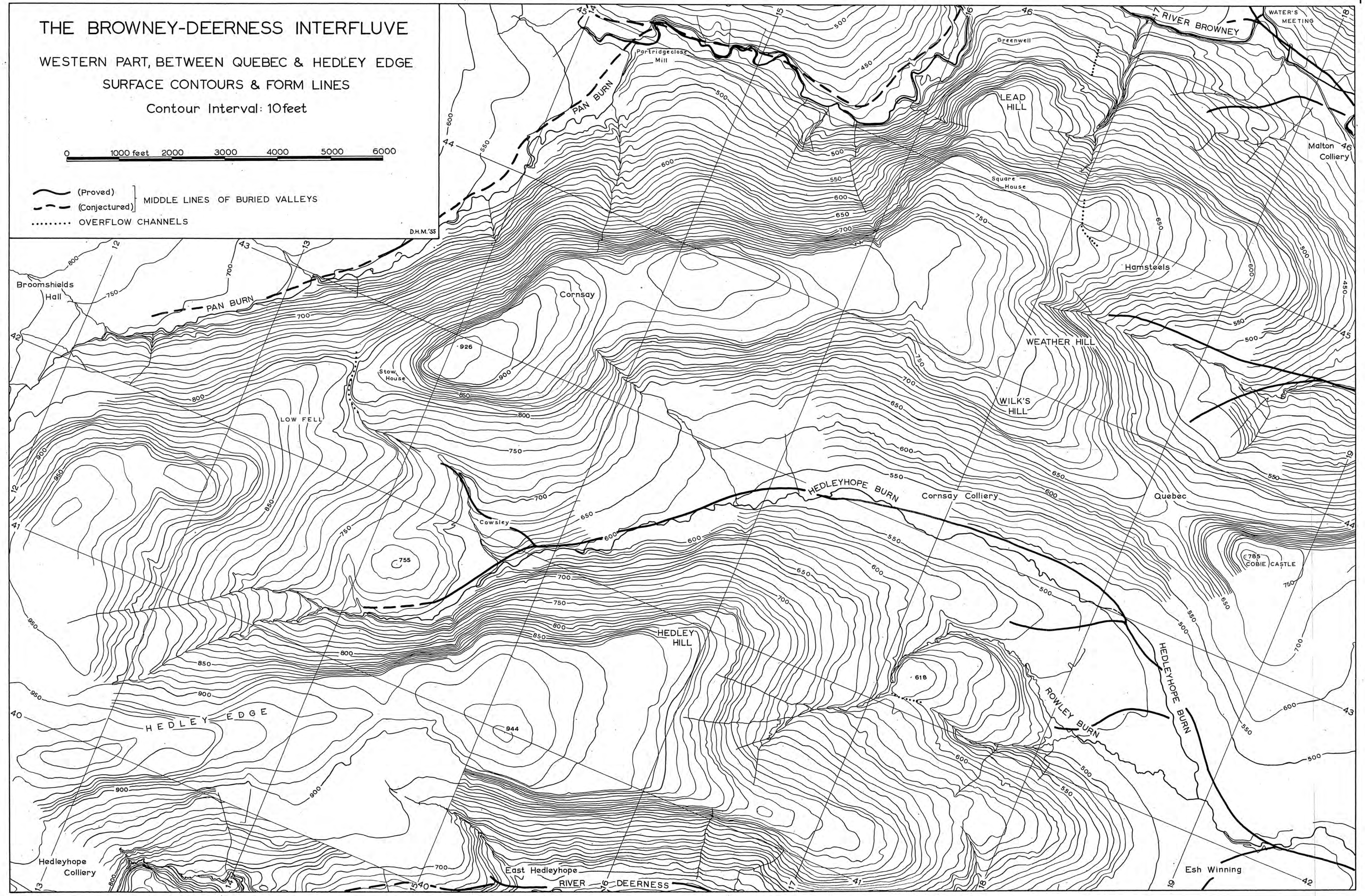
- | | | | | | |
|---------------|---|--------------|----------------|---|--------------|
| BEAMISH GROUP | A | HELLHOLE | CRAGHEAD GROUP | H | FAWSIDE DENE |
| | B | ACTON DENE | | J | HUMBLEBURN |
| | C | HIGH TWIZELL | | K | TRIBLEY |
| | D | ROSE HILLS | CHARLAW GROUP | L | CHARLAW MOOR |
| | E | CLAY SLACK | | M | SACRISTON |
| | F | EDEN HILL | | N | SMITHY DENE |
| | G | HANDENHOWL | | | |

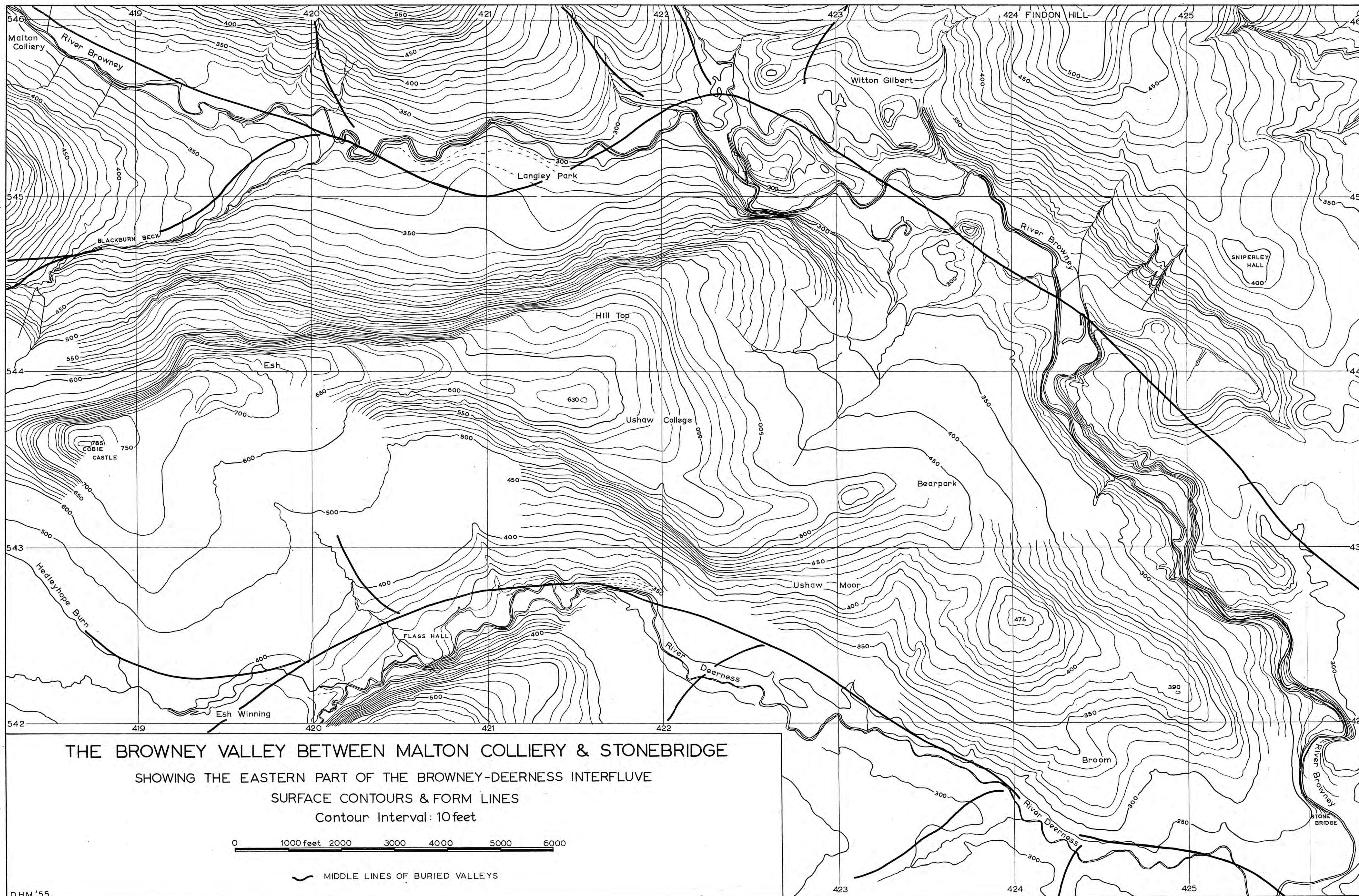


THE BROWNEY-DEERNESS INTERFLUVE
WESTERN PART, BETWEEN QUEBEC & HEDLEY EDGE
SURFACE CONTOURS & FORM LINES
Contour Interval: 10 feet



- (Proved) } MIDDLE LINES OF BURIED VALLEYS
- (Conjectured) }
- OVERFLOW CHANNELS



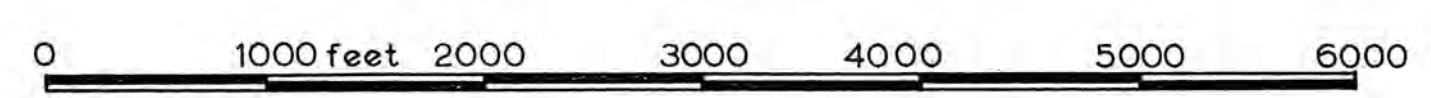


THE BROWNEY VALLEY BETWEEN MALTON COLLIERY & STONEBRIDGE

SHOWING THE EASTERN PART OF THE BROWNEY-DEERNESS INTERFLUVE

SURFACE CONTOURS & FORM LINES

Contour Interval: 10 feet



~ MIDDLE LINES OF BURIED VALLEYS

THE WEAR VALLEY NEAR LAMBTON CASTLE

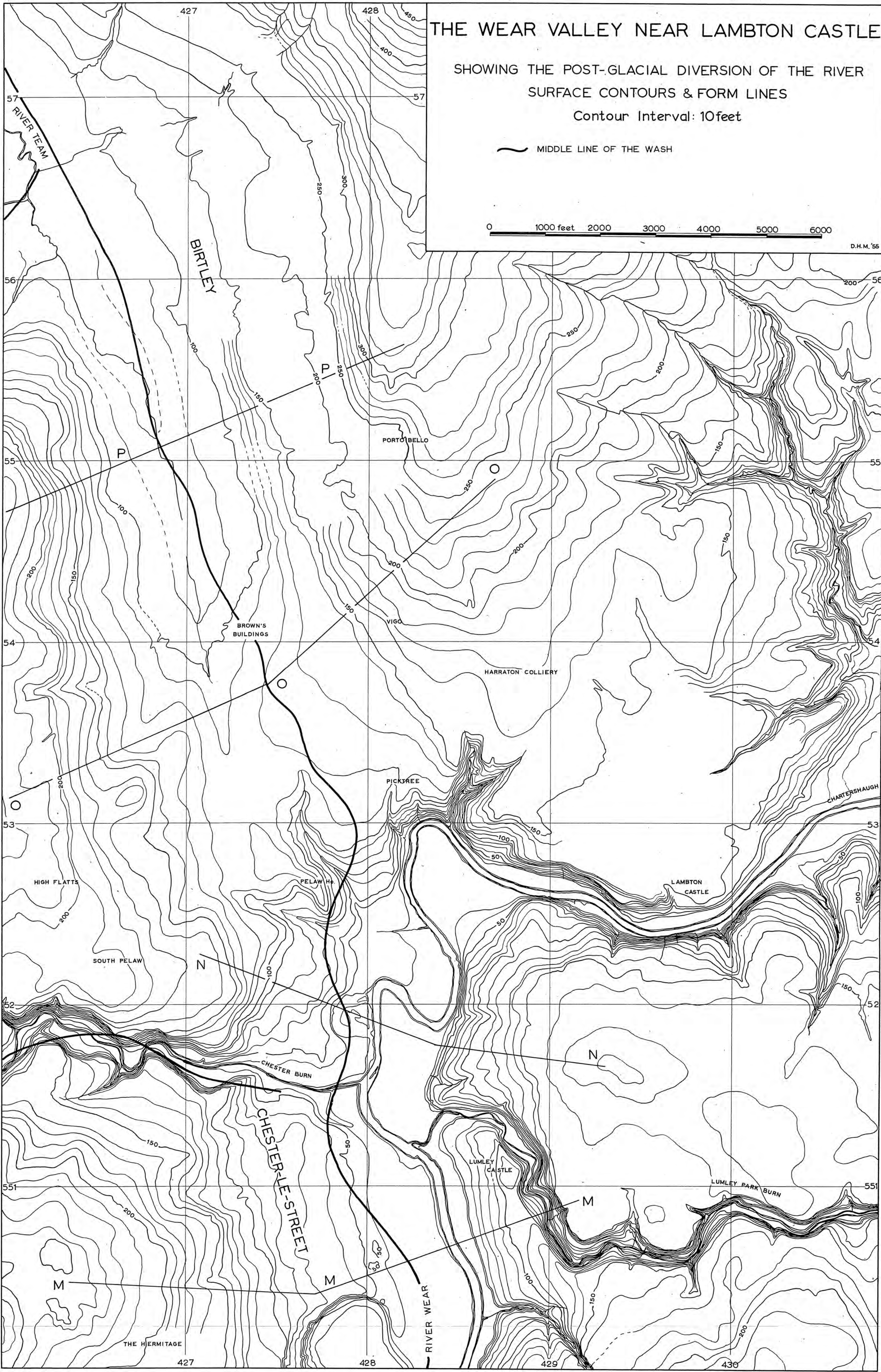
SHOWING THE POST-GLACIAL DIVERSION OF THE RIVER
SURFACE CONTOURS & FORM LINES

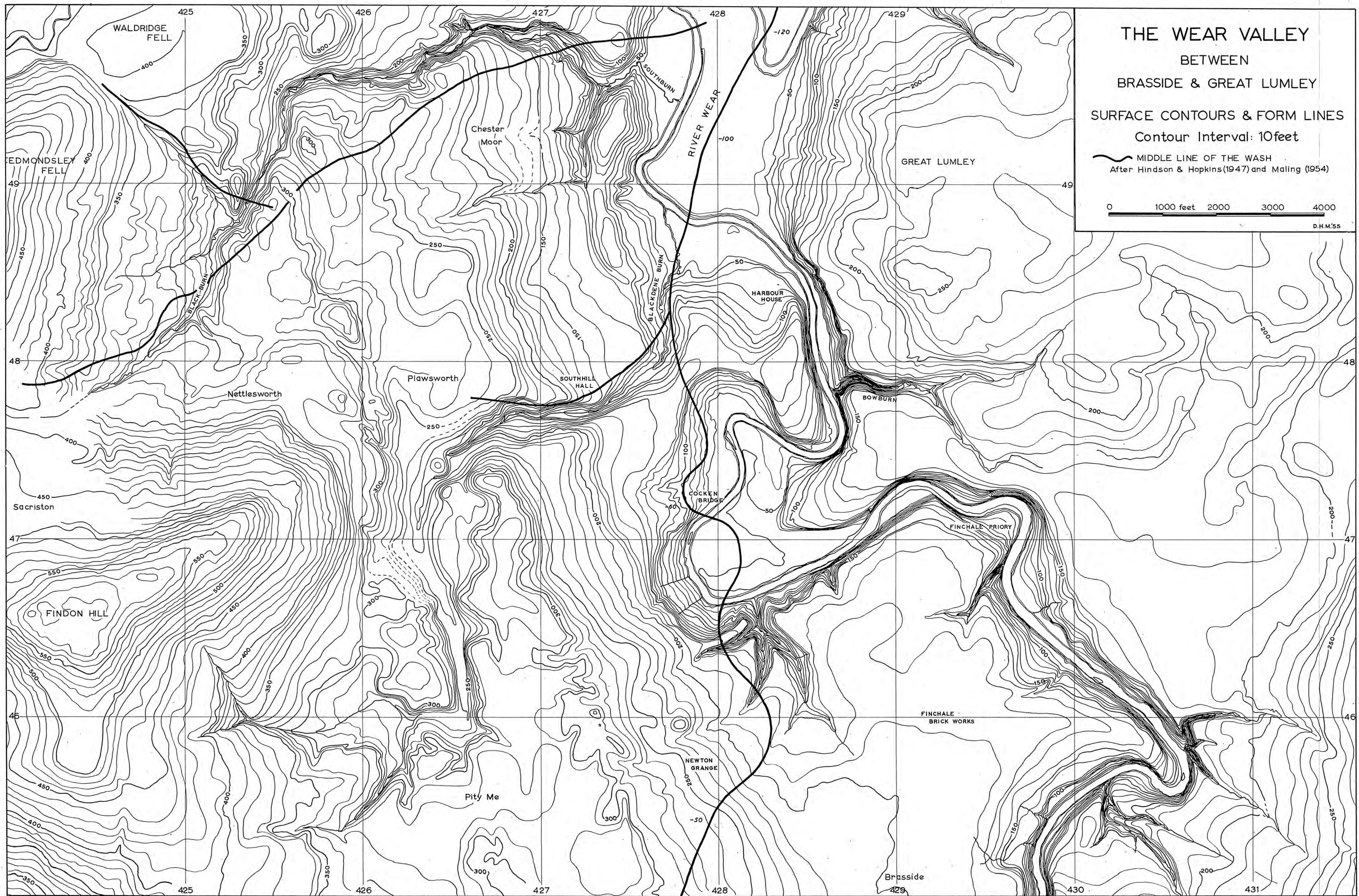
Contour Interval: 10 feet

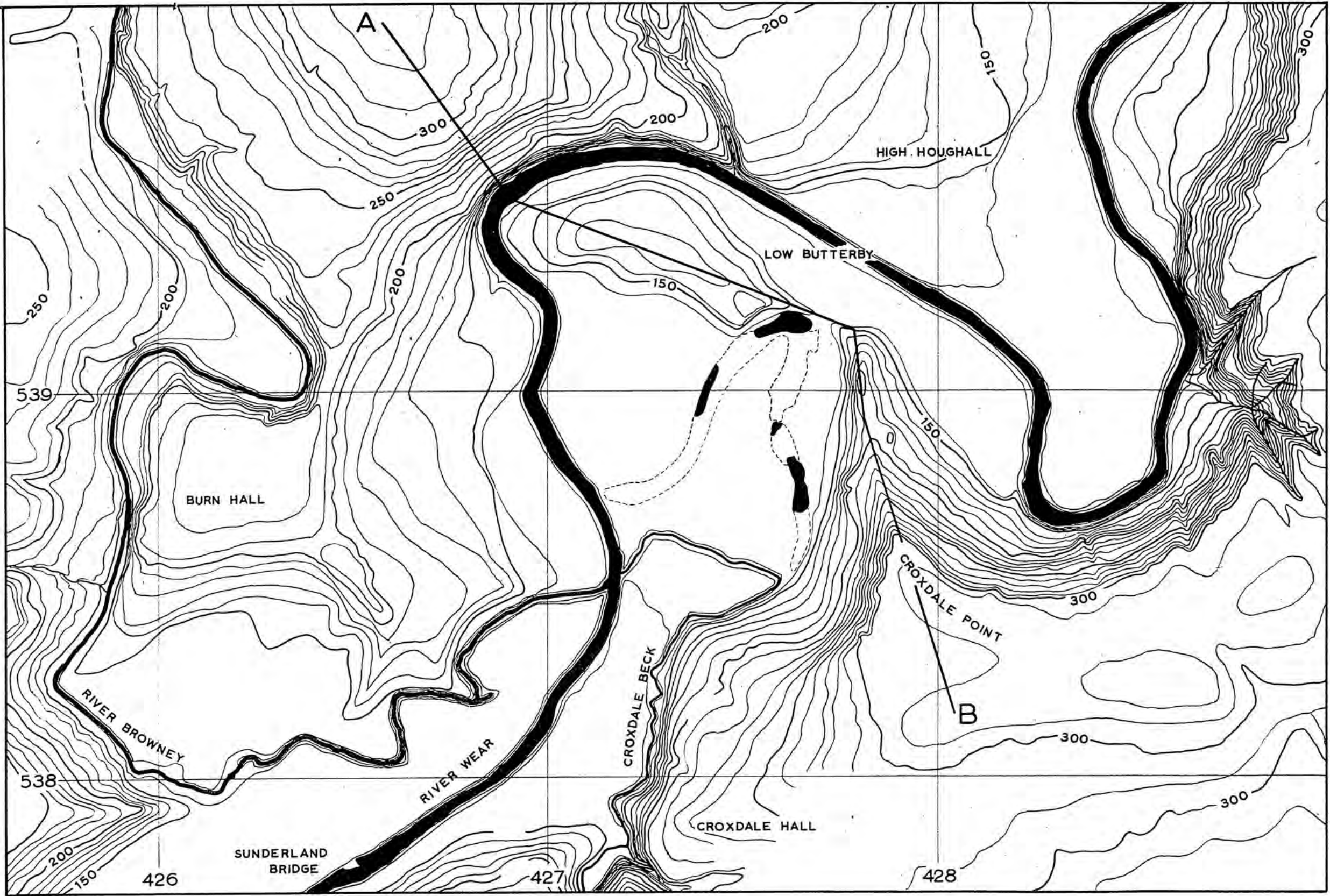
— MIDDLE LINE OF THE WASH

0 1000 feet 2000 3000 4000 5000 6000

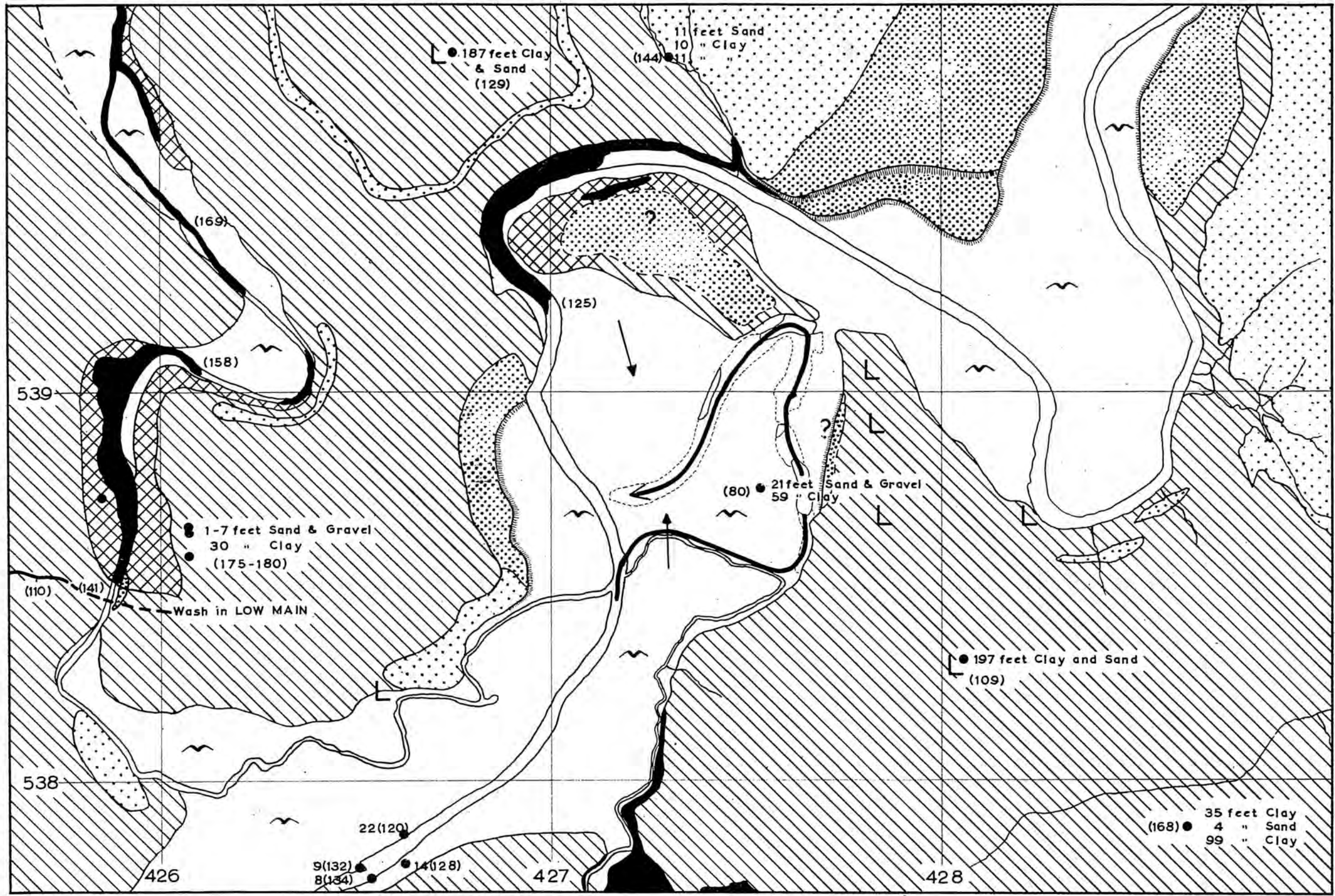
D.H.M. '55





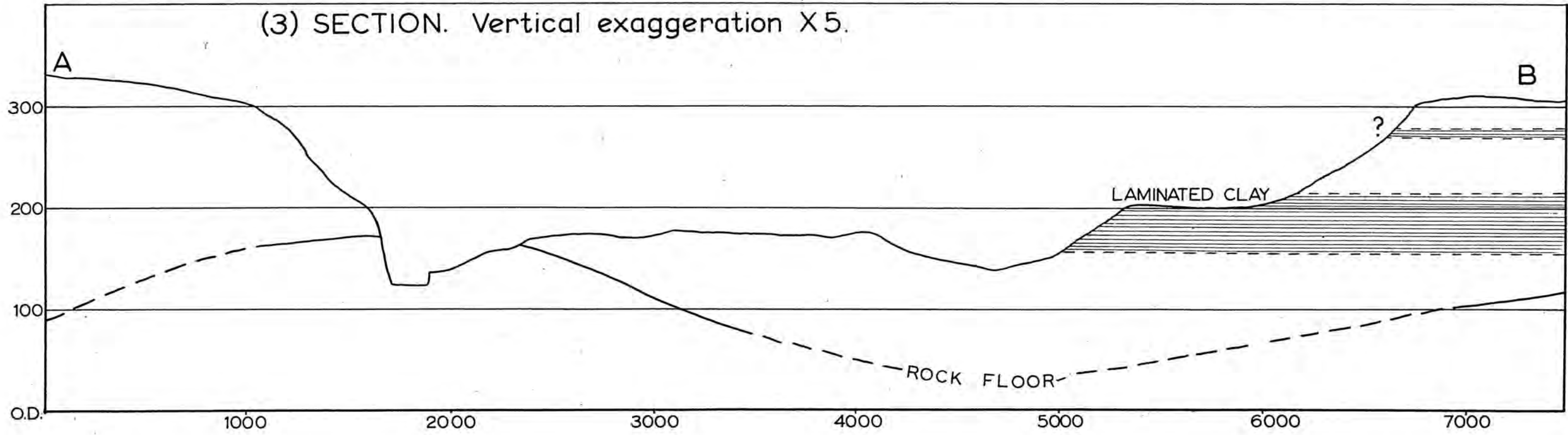


(1) SURFACE CONTOURS & FORM LINES. Contour interval: 10 feet.
Based upon plane-table survey and flood-plain levels, 1953-1954.



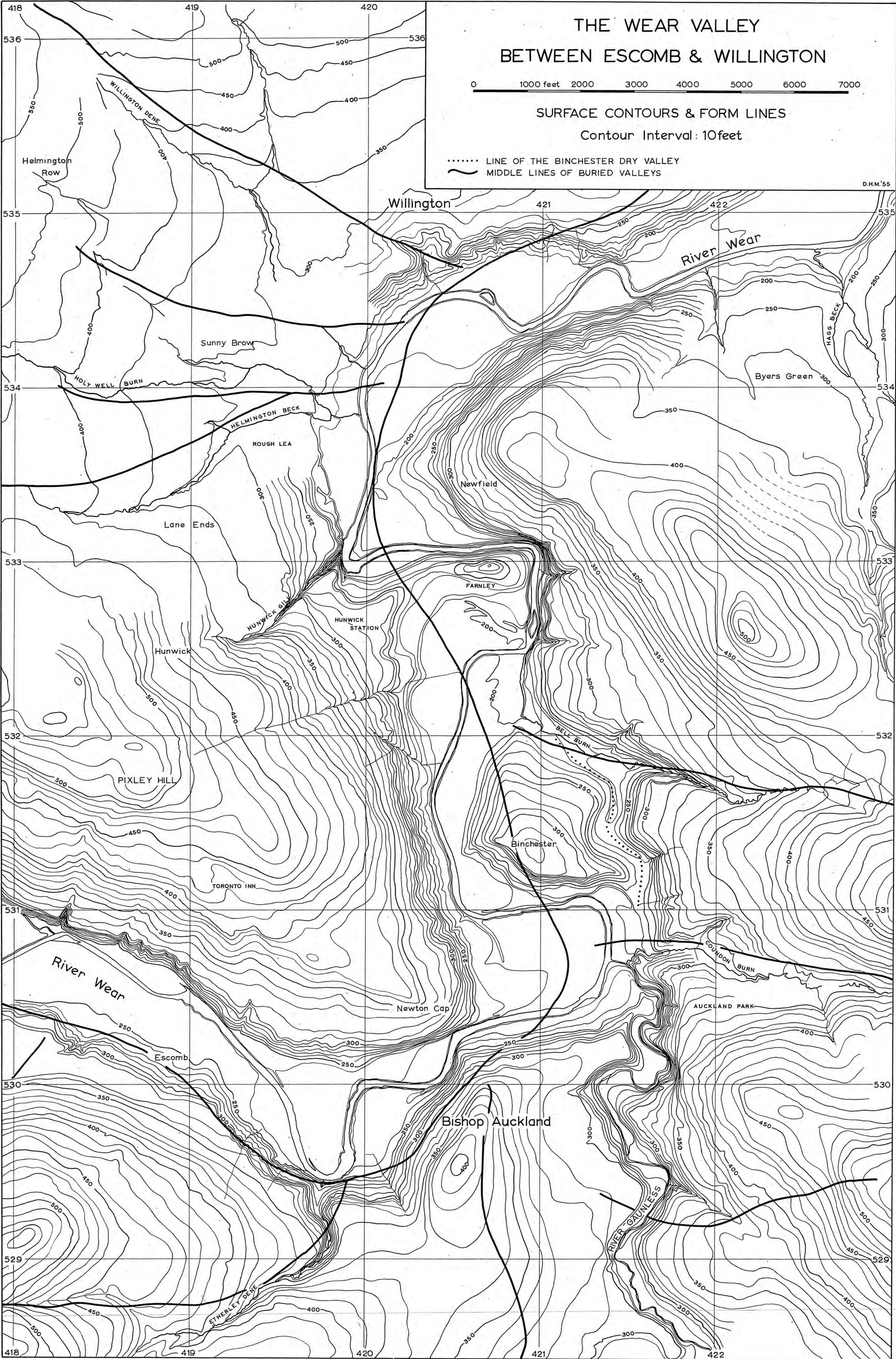
(2) DRIFT DEPOSITS & RIVER TERRACES

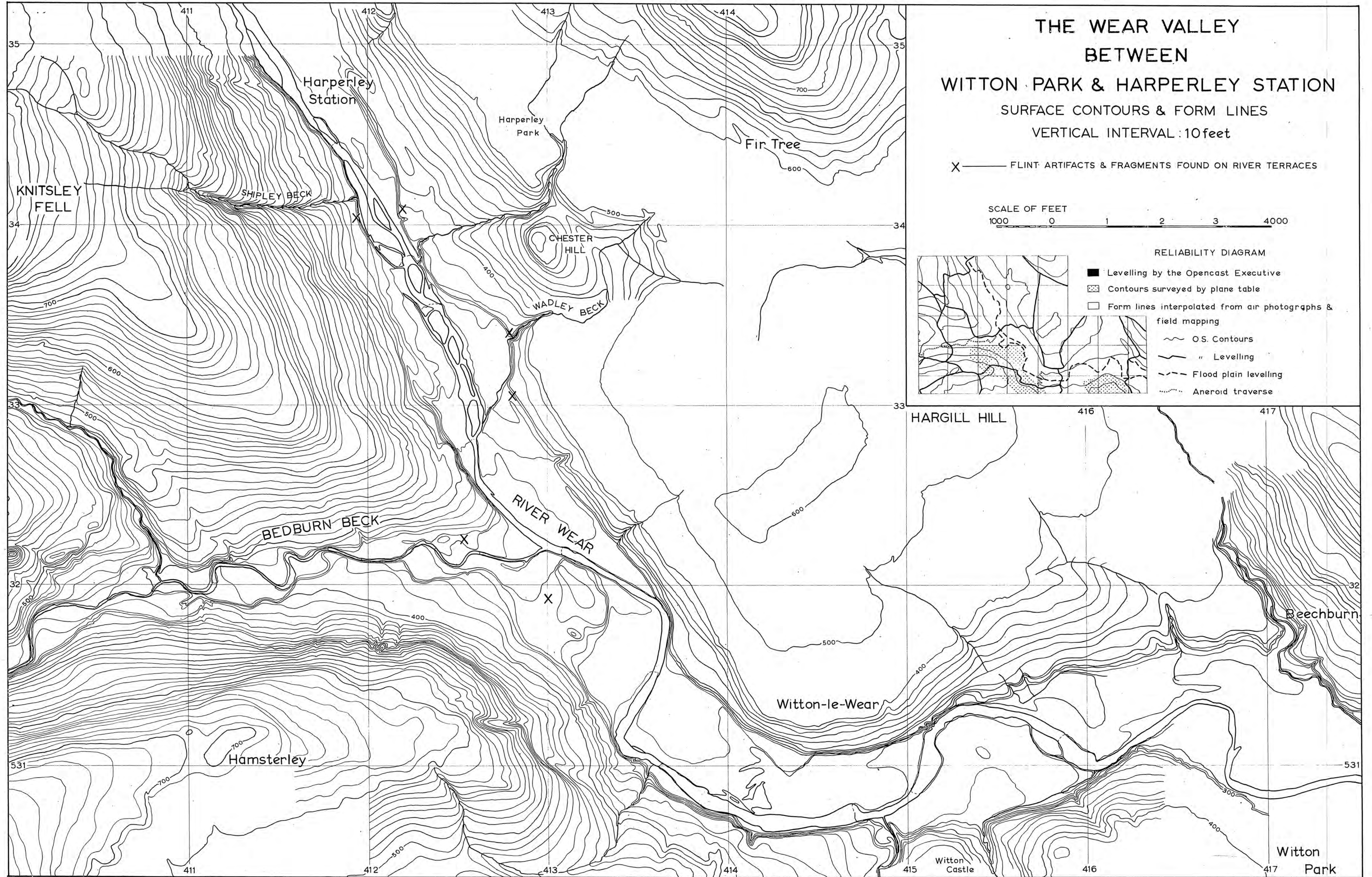
- | | | |
|---|---------------------|---|
| ALLUVIUM | BOULDER CLAY | THIN DRIFT |
| RIVER TERRACE GRAVEL | FLUVIO-GLACIAL SAND | SOLID ROCK AT SURFACE |
| BOREHOLE (Height of rock floor in brackets) | TERRACE SCARP | FORMER COURSE OF RIVER WEAR |
| LAMINATED CLAY EXPOSED OR PROVED BY BORING | | ← APPARENT DIRECTION OF MEANDER MIGRATION |

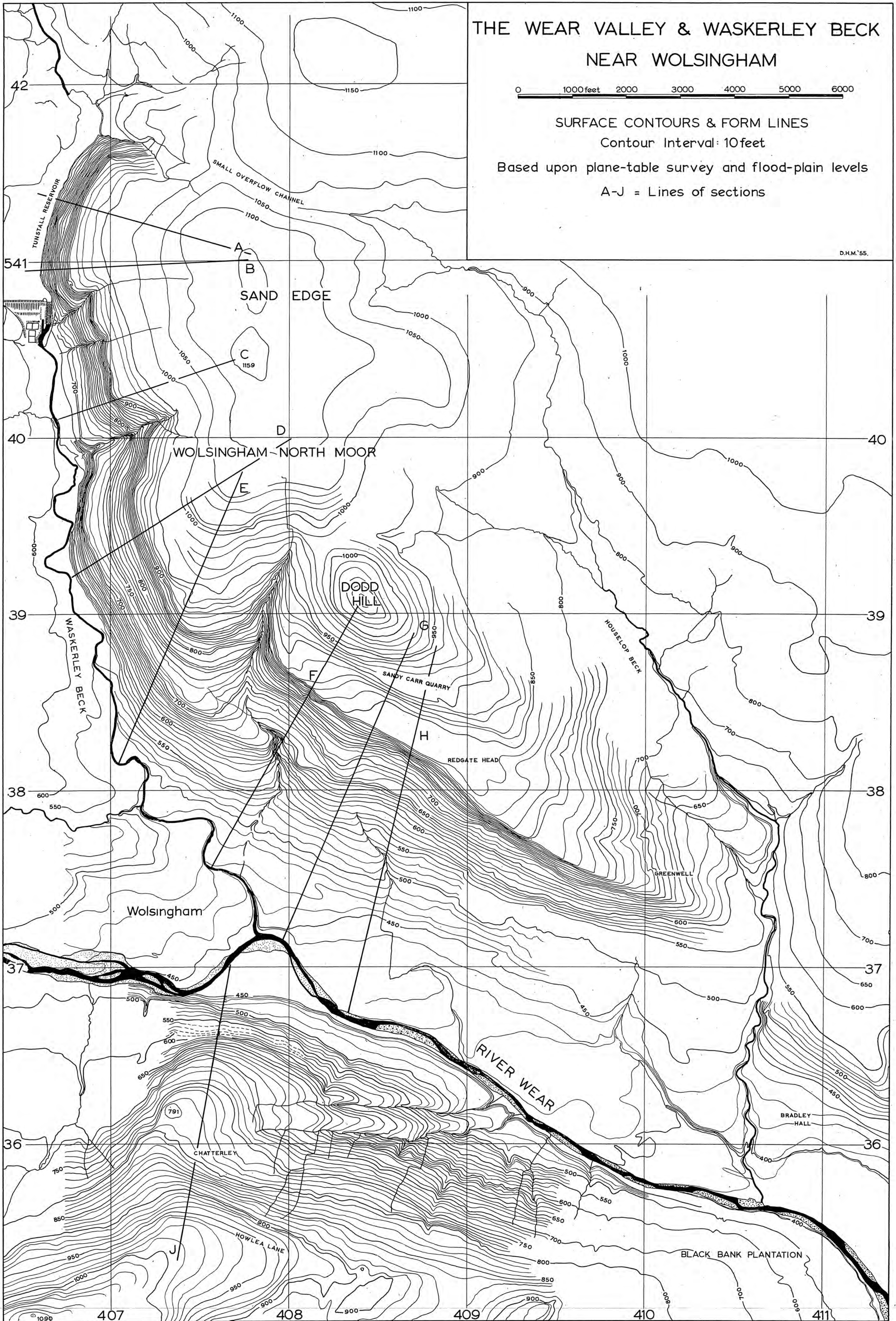


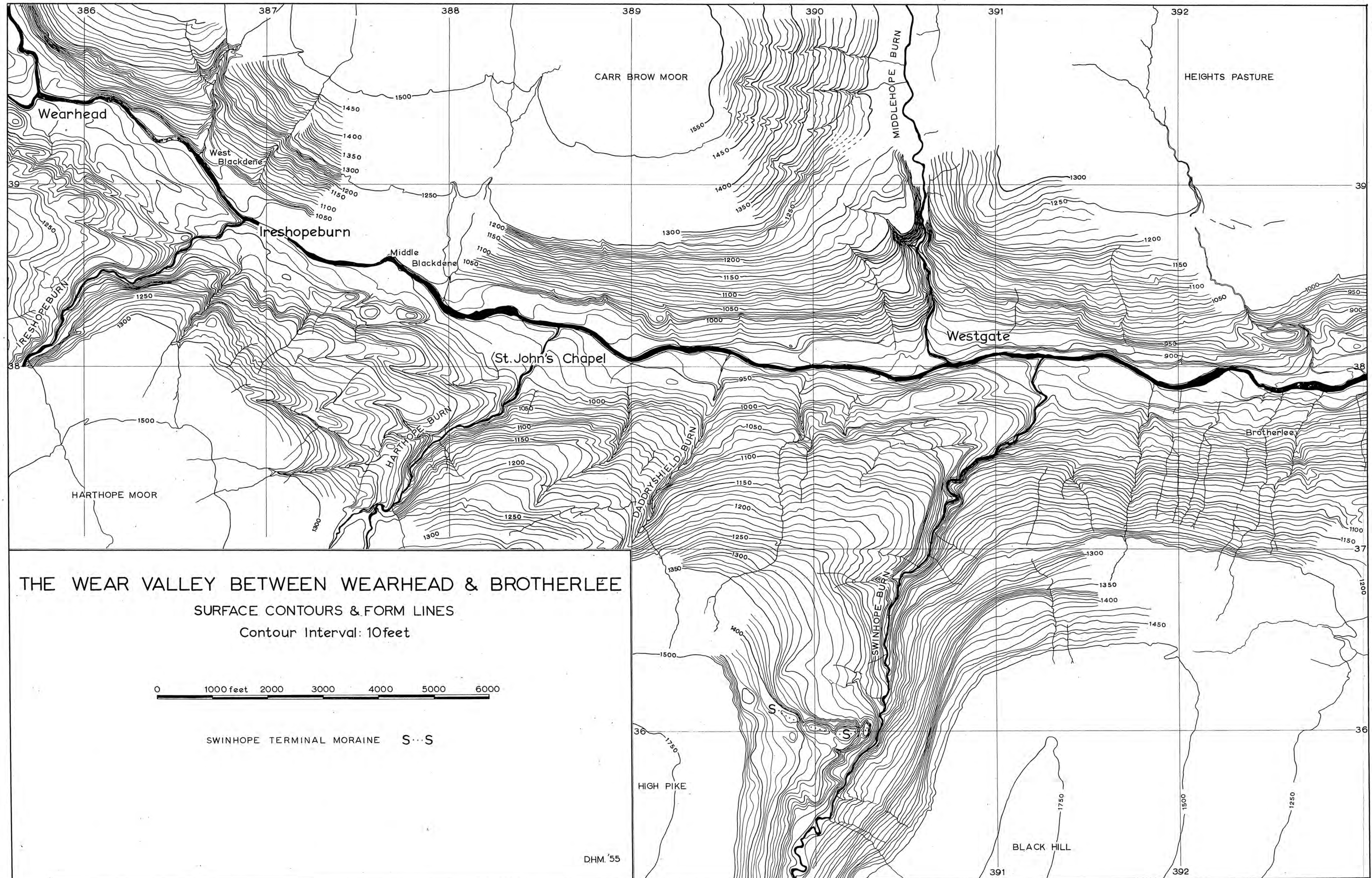
THE WEAR VALLEY BETWEEN SUNDERLAND BRIDGE & HIGH HOUGHALL



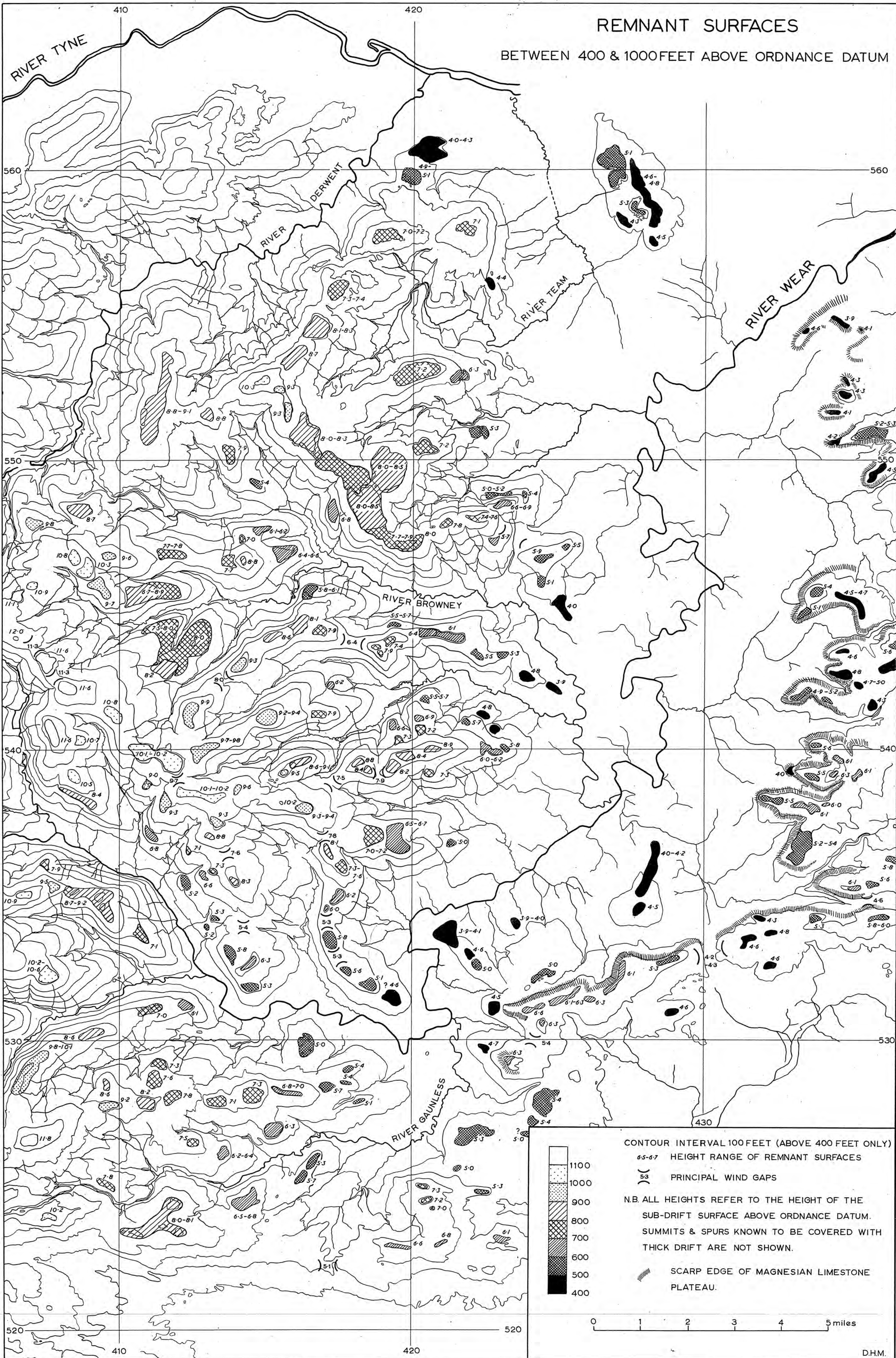


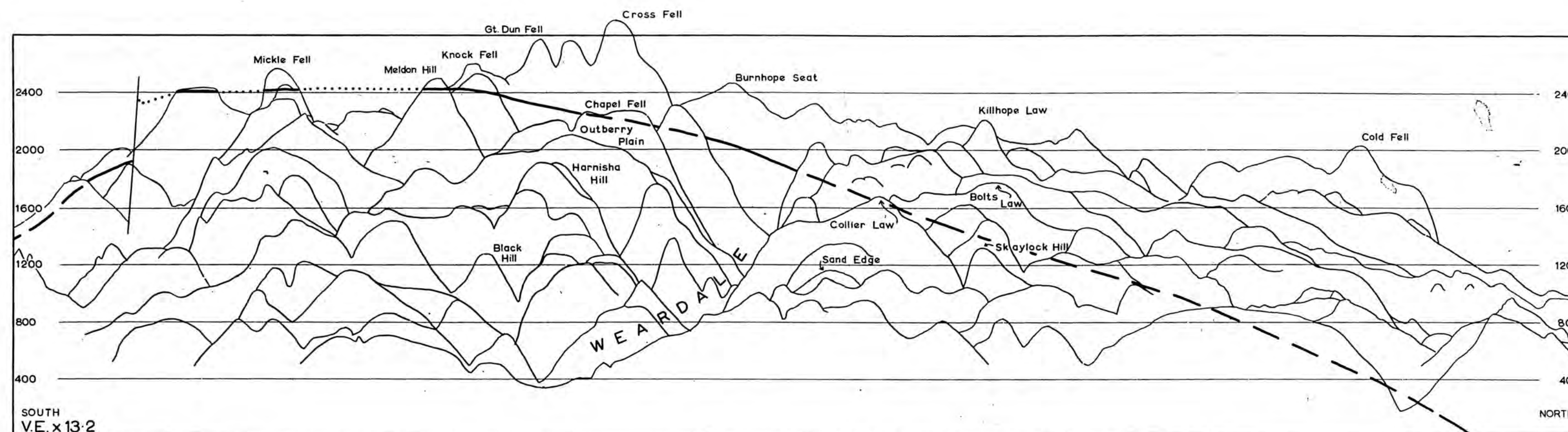






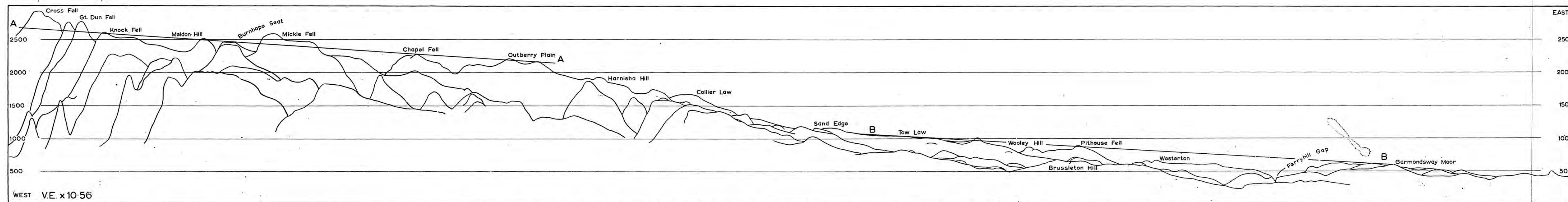




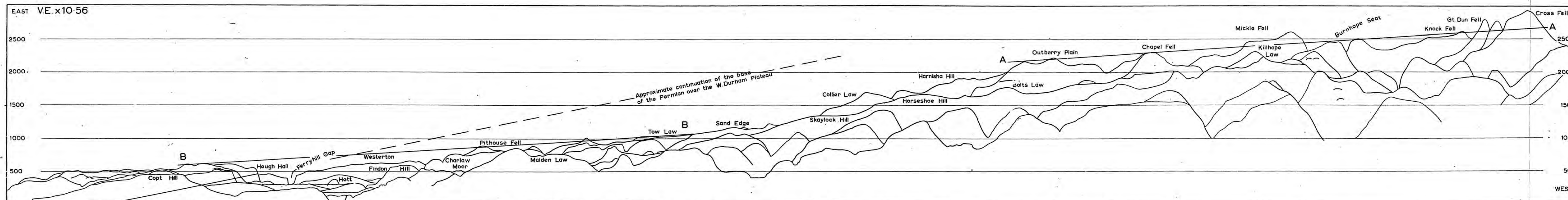


(1) PROJECTED PROFILE OF THE ALSTON BLOCK, VIEWED FROM 410 Kms. EAST. (NAT. GRID)

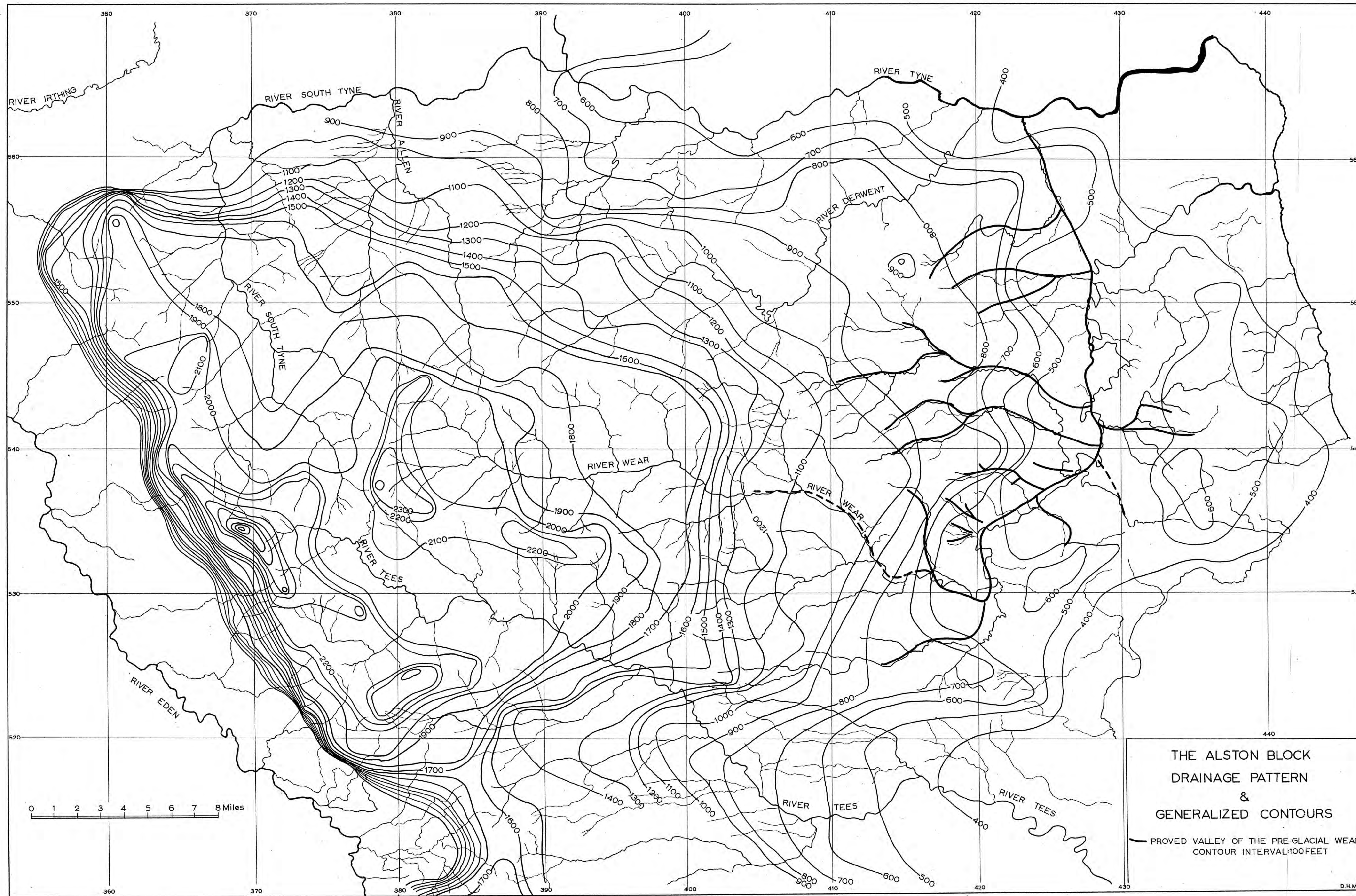
..... APPROXIMATE HORIZON OF GREAT LIMESTONE IN THE WESTERN HILLS (Section through Mickle Fell, Meldon Hill, Burnhope Seat & Killhope Law).

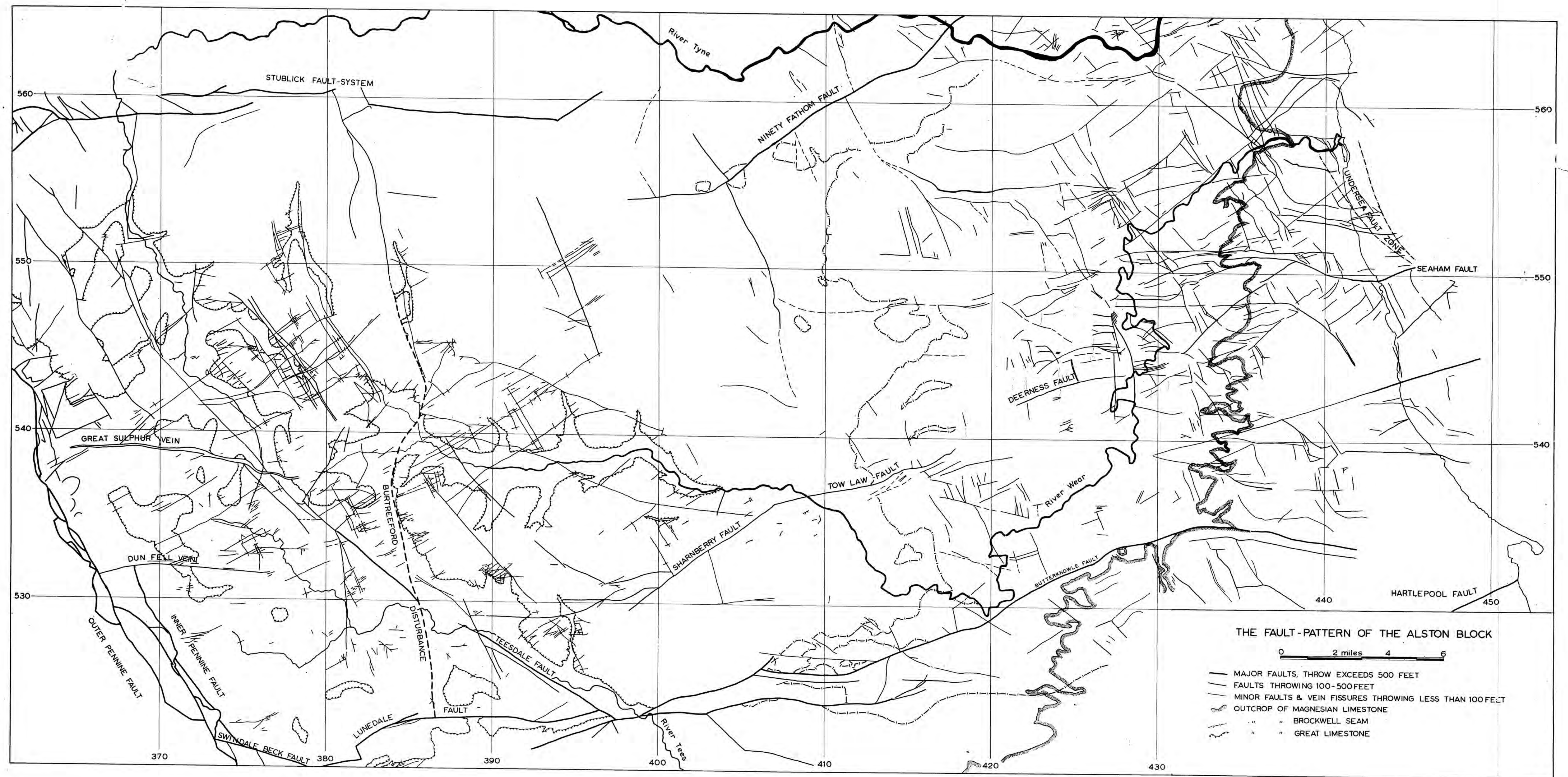


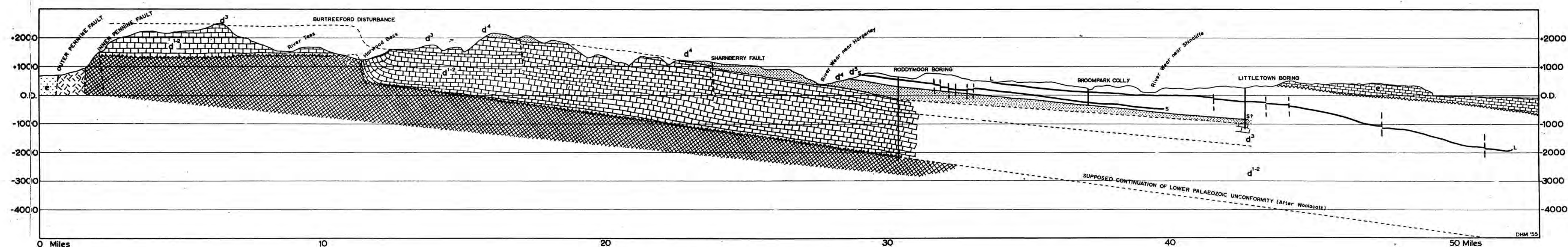
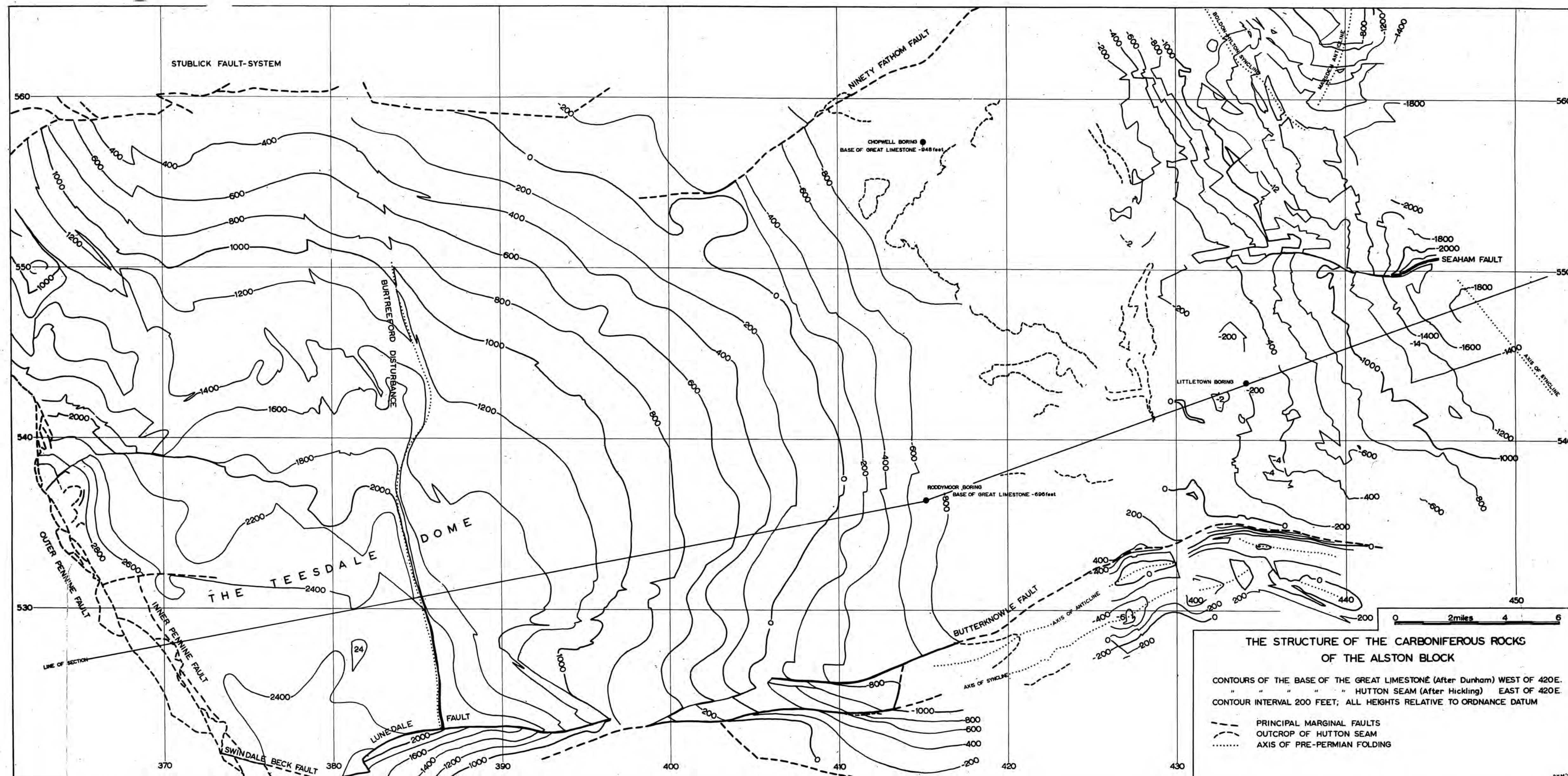
(2) PROJECTED PROFILE OF THE ALSTON BLOCK, VIEWED FROM SOUTH.



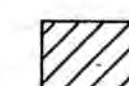
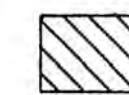
(3) PROJECTED PROFILE OF THE ALSTON BLOCK, VIEWED FROM 550 Kms. NORTH. (NAT. GRID)







KEY TO DETAILED TOPOGRAPHICAL & GEOLOGICAL MAPS

-  DETAILED GEOLOGICAL SHEETS; PLATES 19-23
-  DETAILED TOPOGRAPHICAL SHEETS; PLATES 8-18

0 5 10 miles

